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Lancaster Farming

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Testing Milk for Protein - Researcher Tells Why

Testing milk for protein is a subject that's getting more and more attention lately, and rightly so, according to Herbert C. Gilmore, head of Penn State's milk testing program.

"There's a very real possibility that federal legislation may some day require a listing of all components on every package of food sold. That includes listing protein content on milk cartons," Gilmore told LANCASTER FARMING.

One of Gilmore's responsibilities is overseeing the nation's first milk testing program with a sophisticated piece of machinery that automatically analyzes protein as well as fat content of milk samples.

"We got the machine just this past July," Gilmore says, "and we started testing in September. Right now we're analyzing protein content in about 9000 milk samples a month.

"About 8000 of those samples are ones we've chosen as part of our testing program. The other 1000 or so are being tested for dairymen around the state who've requested the service. The test for butterfat costs 10-cents per sample. The additional test for protein costs another 5-cents, or a total of 15-cents for each sample."

Gilmore pointed out that the program is still in its infancy, and protein tests cannot presently be carried out on the same scale as they are for butterfat. If demand for the program should increase, however, Gilmore said the service would be made available.

"The combination automatic tester is the real key to this program," he pointed out. "It used to take several days to get a readout on a protein analysis. With this machine, we can handle close to 200 samples an hour."

Before the start of the program, Gilmore and his colleagues expected that protein content in milk from individual cows would generally be about equal to or lower than the butterfat content. On the whole, the testing program bears out these expectations.

"But there are exceptions,"

(Continued On Page 33)

Clarence Stauffer, left, discusses heifer management with Elam Bollinger, a dairy farmer from Manheim. Stauffer is this area's GEM (Genetic Evaluation and Management) consultant. GEM is a program administered by the Holstein-Friesian Association of America.

Farm Calendar

Monday, November 27

7:30 p.m. - Octoraro Young Farmer meeting, vo-ag department, Octoraro High School.

DHIA Quarterly Directors meeting, Farm and Home Center.

Buck Season Opens

Tuesday, November 28

9:30 a.m. - Chester County Extension sewing course, Men's Knit Jackets, St. James Episcopal Church, Downingtown.

7:30 p.m. - Ephrata Young Farmers Beef Herd Management course, "Marketing Finished Cattle", vo-ag department, Ephrata High School.

Garden Spot Young Farmers meeting, vo-ag department, Garden Spot High School.

Thursday, November 30

7:30 p.m. - Red Rose FFA meeting, Garden Spot High School.

GEM Helps Solve Breeding Problems

By Jim Leuenberger
Director of Information
Holstein-Friesian
Association of America

"I just don't take enough time on picking breeding bulls for my cows. I could if I took the time. I use the Sire Summaries from HFAA, but it takes a long time to sort through all the bulls. So I called our GEM consultant shortly after I heard about the GEM service and had him evaluate my herd and help me select service sires."

These were comments made recently by dairyman Elam Bollinger of Manheim, an early participant in GEM - Genetic Evaluation and Management - service of Holstein-Friesian Services, Inc.

"The money I spent for GEM was one of the best investments I ever made!" So said Alden Ballard, Holstein dairyman from Vermont who also enrolled his herd in the GEM Service.

These comments are just a few of many like them that have been made by satisfied Holstein dairymen who have had their herds evaluated by a GEM Service Consultant.

Although only being offered in limited areas of the country at the present time, plans are to eventually have GEM consultants available throughout the country. Pennsylvania dairymen currently serving as consultants are: Clarence Stauffer, Ephrata; George Bridenbaugh, Martinsburg; Dean Hearn, Warren; C. Wesley Baxter, Fredonia, and Albert Smith, Springville.

The need for such a service has

(Continued On Page 33)

Mt. Joy Rotary Buy 70 Capons

Members of the Mt. Joy Rotary Club sponsored a 4-H dressed capon exhibit at Hostetters Banquet Hall in Mt. Joy on Tuesday. The members bought all ten capons entered in the exhibit, the two turkeys shown, plus an additional 60 capons from the 4-H'ers.

James Sauder of Mt. Joy exhibited the grand champion capon. Reserve champion honors went to Pam Wivell of Columbia. The other three exhibitors placing in the top five were Beverly Garber, Philip Garber and Julie Garber, all from Mt. Joy.

Kevin Ulrich, Ephrata, showed the grand champion turkey while his brother, Ricky, took the reserve prize.

Kermit Birth, extension poultry specialist from Penn State, was the judge for the exhibit as well as the luncheon speaker.

In charge of the capon project was Roy Sauder, 4-H club leader from Mt. Joy.

Farmers Almanac Debuts Today

Almost everyone believes in, or at least enjoys, the Old Farmer's Almanac. That's why, starting today and continuing each week, you'll be able to read the Almanac's weather predictions for the following week in LANCASTER FARMING.

Those predictions, made many months in advance, aren't something to chuckle over. As a matter of fact, the Old Farmer's Almanac has batted 80 per cent correct, higher than the official U.S. weather reports.

The folksy predictions are so good that their publisher, C. Robertson Trowbridge, admits "there's a little witchcraft in them."

The amazingly accurate forecasts are based on study of such things as sun spot cycles and weather data spanning 180 years.

Besides the weather predictions the new almanac feature will include some folksy and homey information, along with some fairly corny gags.

Watch for it each Saturday on the Poultry Market page.

James Sauder, left, won grand champion honors at the Elizabethtown-Donegal Area 4-H Dressed Capon Exhibit held this week at Mt. Joy. Pam Wivell, center, had the reserve champion. Penn State poultry specialist Kermit Birth, right, was the judge for the event.

Promotion Plan Gets DHIA Ok

The board of directors of the Red Rose DHIA voted Monday evening at their regular quarterly meeting to adopt a promotional program that has been initiated by the state DHIA organization.

According to assistant county agent Alan Bair, the program was adopted so that dairymen who aren't using DHIA can become familiar with it. He said about a third of the counties in the state had adopted the promotion.

Under the program, new herds going on test between now and January 1, 1973, will receive one month's free test. All herds begun under the program will be started as a twice-a-day DHI herd. These herds can be converted to any currently available testing program the second month on test.

Only herds that have not previously been on test are eligible for the program.

The directors felt that production testing is such an important part of herd management that all dairymen should be encouraged to test. Anyone interested in the program is invited to contact the DHIA supervisor or director in his area, or the agricultural extension office in the Farm and Home Center.

It was also announced that the annual DHIA meeting will be held January 16, 1973, at the Farm and Home Center. Harold Stebbins will be the guest speaker.

Local Livestock Market, Auction News

Lancaster Auction

Wednesday, November 22

	Cattle	Calves	Hogs	Sheep
Today	311	79	219	12
Last week	605	119	457	25
Last year	524	77	111	32
This weeks Auction	248	79	215	10
Last weeks Auction	471	131	430	21

CATTLE — Compared to last Wednesday slaughter steers fully steady; Compared to Monday cows 25-50 higher; bulls 1.00 higher.

SLAUGHTER STEERS — Few high Choice and Prime 1050-1200 lb. 35.75-36.35; Choice 925-1200 lb. 35.35-36.75, five head 37.00-37.50; Choice 1250-1375 lb. 33.75-35.00; high Good and low Choice 1050-1250 lb. 33.25-35.00; Good 1000-1250 lb. 32.00-34.60; Standard and low Good 31.75-32.75.

COWS — Utility and high dressing Cutter 26.00-27.60, few 27.75-28.25, couple 28.75-28.85; Cutter 24.75-26.25; Canner and low Cutter 22.35-24.25.

BULLS — Choice 36.10-37.60; Good 34.25-35.50; Utility and Commercial 33.35-36.35, couple 36.75-37.00, few 950-1100 lb. 32.00-33.00.

VEAL CALVES — Vealers slow 1-3.00 lower.

VEALERS — Choice 55.00-60.00; Good 50.00-55.00; Standard 44.00-50.00.

RETURNED TO FARM — Bulk 90-120 lb. Holstein Heifers 55.00-65.00; Bulk 90-120 bull calves 48.00-60.00.

Lebanon Valley Auction

Tuesday, November 21
313 Head of Cattle

Compared with last weeks market, slaughter steers grading Standard and Good 75c to $1 lower. Slaughter cows unevenly steady.

STEERS: Choice (few) 34.75-36.50; Good 34.00-35.35; Standard 32.50-33.50; Utility (few) 31.00-32.50.

COWS: Utility and High Dressing Cutter 26.00-27.75; Cutters 24.50-26.50; Canners 23.00-24.75; Shells down to 21.50.

BULLS: Good (few) 33.75-36.60; Utility and Commercial 32.85-34.85; Cutters (few) 29.50-32.25.

240 Head of Veal Calves

Vealers mostly $2 to $3 lower.

Prime (few) 57.00-65.00; Choice (few) 54.00-57.00; Good 52.00-54.50; Standard 45.00-49.00; Utility 90-120 pounds 39.00-45.00; 70-85 pounds 36.00-40.00.

FARM CALVES: Bulls 80-120 pounds 41.00-63.00; Heifers 85-150 pounds 60.00-83.00.

Lancaster Market

Monday, November 20

	Cattle	Calves	Hogs	Sheep
Today	375	171	750	143
Last week	548	165	1068	160
Last year	371	185	613	98

CATTLE — Insufficient volume Slaughter Steers to test market trend; Cows steady to weak; Bulls 1.00-2.00 lower. Supply included 204 in afternoon auction.

SLAUGHTER STEERS — Few Standard and Good 1050-1500 lbs. 30.85-33.35.

COWS — Utility and high-dressing Cutter 25.75-26.50, few 26.75-27.35; Cutter 24.00-25.50; Canner and low-Cutter 21.50-23.50.

BULLS — Good 33.00-34.25, few Choice 34.75-36.35; Utility and Commercial 32.50-34.10, few 34.75-35.75.

VEAL CALVES — Vealers slow, weak to 1.00 lower; good demand for Calves returned to farm.

VEALERS — Prime 62.00-67.00, few 68.00; Choice 57.00-61.00; Good 53.00-58.00; Standard 46.00-53.00; Utility 42.00-46.00.

RETURNED TO FARM — Bulk 90-125 lbs. Holstein Heifers 60.00-75.00, few 75.00-80.00; bulk 90-120 lbs. Bull Calves 48.00-54.00.

SHEEP — Wooled Lambs steady; Ewes mostly steady.

WOOLED LAMBS — Choice 70-95 lbs. 27.00-29.00, few 29.50; Good 60-95 lbs. 24.00-27.00.

SLAUGHTER EWES — Utility and Good 4.00-10.00.

New Holland Horse Auction

Monday, November 20

Reported receipts of 369 head of horses; market stronger on riding horses, lower on killers.

Load New York driving horses, 125 - 310.

Load Ohio riding and work horses; riding 115 - 180; single draft work horses 255 - 270; pair 740.

Load Kansas saddle bred riding and driving horses, 320 - 710.

Load Iowa riding and work horses; riding 145 - 340; single work horses 300 - 405.

Load Iowa riding horses, 155 - 300.

Local work horses 165 - 275; driving horses 80 - 260; riding horses 75 - 210; better horses 225 - 320; killers 5 - 8.

Mare ponies 5 - 20; colts 3 - 6; geldings 5 - 15; larger ponies 25 - 35.

Oklahoma City

No Auction Due to Holiday.

Composite Report

Weekly, November 25
Lancaster and Vintage Auctions.

	Cattle	Calves
First three days	1400	1150
Same period last week	2055	999
Same period last year	1756	892

CATTLE — Slaughter steers steady to 25 lower; cows strong to 50 higher; bulls steady to 1.00 lower. Supply included 35 percent slaughter; 45 percent cows with the balance mainly bulls.

SLAUGHTER STEERS — High Choice and Prime 1050-1315 lb. 35.60-36.60; Choice 925-1275 lb. 34.75-37.10, few 37.10-37.75, eight head 37.85-38.75; Choice 1300-1425 lb. 33.75-35.25; high Good and low Choice 1000-1250 lb. 33.25-35.50; Good 32.00-34.60; Standard and low Good 30.00-33.00.

SLAUGHTER HEIFERS — Choice 775-950 lb. 34.00-36.60; Good 33.25-35.50; few Standard 28.00-31.00.

COWS — Utility and high dressing Cutter 25.75-27.75, few 27.85-28.50, couple 28.75-28.85; Cutter 24.35-26.75; Canner and low Cutter 22.35-24.50.

BULLS — Choice 36.10-37.60; Good 33.00-35.50; Utility and Commercial 33.35-36.35, few 36.35-37.35; Low Utility 900-1100 lb. 32.00-33.00.

VEAL CALVES — Choice and Prime vealers steady to weak; Utility to Good 1-3.00 lower. Demand only fair for calves returned to farm.

VEALERS — Prime 62.00-67.00, few 67.50-69.50; Choice 56.00-63.00; Good 50.00-57.00; Standard 44.00-52.00; Utility 90-120 lb. 40.00-46.00, 65-85 lb. 35.00-41.00, one lot 59 lb. 30.75.

RETURNED TO FARM — Bulk 90-120 lb. Holstein Heifers 75.00-83.00, 70-85 lb. 52.40-67.50; Bulk 90-120 lb. bull calves 47.00-60.00.

New Holland Dairy Cattle

Wednesday, November 22

Reported receipts of 89 cows, 15 heifers; market steady on fresh cows, balance lower.

Load New York cows, fresh, 520-585; springers, 480-560.

Load Vermont cows, fresh, 460-650.

Load Wisconsin cows, fresh, 600-700.

Load Wisconsin cows, fresh, 550-770.

Load Pennsylvania cows, fresh, 610-1,250.

Load Franklin County cows, fresh, 510-740.

Load Wisconsin cows, fresh, 540-740.

Local cows, 300-690.

Springing heifers, 360-500.

Open heifers, 200-265.

Vintage Auction

Tuesday, November 21

	Cattle	Calves	Hogs	Sheep
This week	590	857	346	50
Last week	748	696	453	5
Last year	694	630	298	70

CATTLE — Compared to last Tuesday slaughter steers steady to 25 lower; cows strong to 50 higher; bulls steady to 50 higher on Utility and Commercial, Good and Choice scarce. Supply included 53 percent cows.

SLAUGHTER STEERS — Few high Choice and Prime 1100-1315 lb. 35.60-36.60; Choice 950-1300 lb. 34.75-37.10, few 37.25-37.75, eight head 37.85-38.75; Choice 1300-1425 lb. 34.00-35.25; high Good and low Choice 1000-1250 lb. 34.25-35.50; Good 32.75-34.50; Standard and low Good 30.00-33.00.

SLAUGHTER HEIFERS — Choice 775-950 lb. 34.00-36.60; Good 34.25-35.50; few Standard 28.00-31.00.

COWS — Utility and high dressing Cutter 25.75-27.75, few 27.75-28.50; Cutter 24.35-26.75; Canner and low cutter 22.50-24.50.

BULLS — Good 33.00-34.60, individual Choice 36.85; Utility and Commercial 33.60-35.85, couple 36.35-37.35.

VEAL CALVES — Choice and Prime vealers fully steady, Utility to Good weak to 2.00 lower, instances 3.00 lower on Utility. Demand only fair for calves returned to farm.

VEALERS — Prime 63.00-66.00, few 67.00-69.50; Choice 58.00-63.00; Good 50.00-57.00; Standard 45.00-52.00; Utility 90-120 lb. 40.00-45.00, 65-85 lb. 35.00-41.00, one lot 59 lb. 30.75.

RETURNED TO FARM — Bulk 90-120 lb. Holstein Heifers 77.00-83.00, 70-85 lb. 52.50-67.50; Bulk 100-120 lb. bull calves 53.50-59.00, 90-100 lb. 47.00-52.00.

Local Grain

Friday, November 24

These prices are made up of the average prices quoted by five participating local feed and grain concerns. It should be noted, however, that not every dealer handles each commodity. All prices are per bushel, except for ear corn which is per ton.

The average local grain prices quoted Friday, November 24, 1972 are as follows:

	Bid+	Offered+
Ear Corn, New	36.33	42.00
Shelled Corn	1.55	1.73
Oats, Local	.84	.98
Oats, Western	1.03	1.16
Barley	1.23	1.48
Wheat	1.88	2.04

+Bid is the price the dealer will buy from the farmer delivered to the mill. Offered is the price the dealer will sell for at his mill.

New Holland Auction

NO AUCTION DUE TO HOLIDAY

Monday, November 20

Calf Receipts 183.

Choice and Prime 64-71; Standard 48-59.50; Good and Low Choice 60-63.50; Common 35-47.50.

Monday, November 20

33 loads of hay and 7 loads of straw sold as follows (price per ton): Alfalfa, few load 41.00-82.00; Timothy 46.00-60.00; Mixed hay 47.00-58.00, few 64.00-82.00; Corn, two loads 30.00 and 32.50; Straw, few loads 37.00-44.00; Ear Corn, two loads 36.50 and 39.50; Clover, one load 69.00.

Peoria Cattle

Wednesday, November 22

Receipts this 3 day period 4200; receipts last week 5578 (5-days); receipts last year 3874 (4-days).

As compared to last weeks close, slaughter steers and heifers fully 50-75 lower. Cows and bulls steady. Supply mainly Choice slaughter steers and heifers, with several loads choice Prime steers. Balance of receipts mainly cows. Receipts about 70 percent steers; 25 percent heifers; and 5 percent cows.

SLAUGHTER STEERS: High Choice and Prime 1225-1300 pounds 3-4, 34.50-34.75 (on Monday). Load 3-5, around 1275 pounds at 34.00. Mixed Choice and Prime 1175-1275 2-4, 33.50-34.50. Choice 975-1340 2-4, 33.00-34.50; mostly 33.25-34.25. Mixed Good and Choice 950-1225 32.75-33.75. Good 31.50-33.25. Standard to Good Holsteins 32.00-32.25.

SLAUGHTER HEIFERS — Load Choice and Prime 960 pounds 3-4, 33.00. Choice 825-1050 2-4, 32.25-33.00. Mixed Good and Choice 775-950 31.50-32.25. Good 30.00-31.50.

COWS: Commercial 22.25-25.00. Utility 24.00-26.00. High yielding Utility 26.00-26.25; individual 26.50. Cutter 21.50-25.50. Canner 19.00-22.00.

BULLS: Utility and Commercial 30.00-32.50.

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Hog Prices

New Holland Auction

Monday, November 20

HOGS 785: Barrows & Gilts: Mostly 50c higher. US No. 1-2 200-240 lbs. 30.00-31.25; US No. 1-3 200-245 lbs. 29.50-30.00; US No. 2-4 230-270 lbs. 28.50-29.50; US No. 2-4 150-190 lbs. 28.00-29.50.

Sows: US No. 1-3 300-600 lbs. 22.50-25.50.

Boars: 22.50-24.00.

Lebanon Valley Auction

Tuesday, November 21

313 Hogs

Barrows and Gilts steady to 50c lower.

Barrows and Gilts: U.S. 2-3 200-235 pounds 29.00-29.35; 2-4 195-260 28.60-28.85.

Sows: U.S. 1-3 300-400 pounds 24.00-27.75; few 2-3 300-500 23.25-23.75.

Boars: (Few) 20.00-23.00.

28 Feeder Pigs

One lot 1-3 25 pound feeder pigs 15.00 per head; one lot 1-3 60 pounds 21.00 per head.

Lancaster Market

Monday, November 20

Barrows and Gilts strong to 25 higher.

BARROWS AND GILTS: US 1 205-240 lbs. 30.00-30.25; US 1-3 195-250 lbs. 29.25-29.75; US 3-4 265-285 lbs. 28.00-28.75.

St. Louis Auction

HOGS 5000. Barrows and gilts 25 higher. US 1-3 200-220 lb. 29.00-29.25; 220-240 lb. 28.75-29.00; US 2-3 240-260 lb. 27.72-28.75.

Vintage Auction

Saturday, November 18

HOGS 1039: Barrows & Gilts: Mostly steady. US No. 1-2 200-235 lbs. 29.60-30.10; US No. 1-3 185-245 lbs. 29.25-29.75; US No. 2-4 230-280 lbs. 28.85-29.35; US No. 2-4 130-155 lbs. 24.50-25.00.

Sows: US No. 1-3 300-600 lbs. 23.25-25.00.

BOARS: 22.85-23.50.

Tuesday, November 21

Barrows and gilts steady, instances 50 lower on US 1; sows scarce.

BARROWS AND GILTS: US 1 210-235 lb. 29.85-30.10; US 1-2 200-240 lb. 29.60-29.75; US 2-3 190-255 lb. 29.00-29.60.

Lancaster Auction

Wednesday, November 22

Barrows and gilts steady.

BARROWS AND GILTS: US 1 215-245 lb. 30.25; US 1-3 200-250 lb. 29.25-29.75.

Indianapolis Auction

HOGS: 1500. Barrows and gilts 50 to 75 higher. US 1-2 200-230 lb. 29.25-29.75; US 1-3 200-250 lb. 28.75-29.25; US 2-3 240-270 lb. 28.25-28.75.

Peoria Auction

HOGS 3000. Trading very active barrows and gilts 50-75 higher. US 1-2 200-230 lb. 29.25-29.50; 110 head 29.75; US 1-3 200-250 lb. 28.75-29.25.

U. S. Inspected Livestock Slaughter

Estimated Daily Livestock Slaughter Under Federal Inspection
"FIRST THREE DAYS"

	CATTLE	HOGS	SHEEP
Week to date	363,000	980,000	118,000
Last week	355,000	951,000	102,000
Last year	336,000	912,000	98.00

Omaha Cattle

Wednesday, November 22

Compared with last weeks close slaughter steers unevenly 25-75c lower. Least decline on cattle selected for weight and yield grade for shipment to Canada. These mainly Choice 1000-1125 pound steers, yield grade 2-3. Heifers 75c lower and cows 1.50-2.00 lower. Bulls fully steady. Fleshy two-way feeder steers weak to 1.00 lower.

Three day receipts 17,000 as compared 13,600 previous week and 14,500 a year ago. Slaughter steers approximately 36 per cent, heifers 43 per cent, cows 9 per cent, and feeders 8 per cent. Fed cattle prices forced sharply downward on weeks opening session under combined impact of liberal marketings and lower carcass quotations. Supplies poorly distributed over period with more than 11,000 arriving Monday. This ninth successive week of steady to lower prices. There was considerable pressure to market cattle in view of ample available supply and extremely poor feedlot conditions with many cattle carrying a considerable amount of mud. A moderate volume of Choice 1000-1125 pound steer grade 2-3 bought for shipment to Canada.

STEERS: 12 loads High-Choice and Prime 1050-1150 pounds 3-4 relatively clean 33.10-33.50. Other High-Choice and Prime 1100-1236 3-4 32.75-33.00. Choice 975-1225 2-4 closed 32.25-33.00. Those at latter price usually clean 1000-1125, Choice 1250-1325 grade 4 31.50-32.50. Mixed Good and Choice 950-1225 31.75-32.25; Good 30.75-31.75; Holsteins included at 31.50. Standard and low Good 30.00-30.75.

Average cost slaughter steers for two days 32.28 average weights 1125 pounds as compared 33.33 and 1127 pounds previous week and 33.93 and 1117 pounds a year ago.

HEIFERS: Four loads High-Choice and Prime 922-963 pounds 3-4 32.25-32.50, moderate volume same grade 815-1028 pounds 31.75-32.00. Choice 825-1100 2-4 31.00-31.85. Mixed Good and Choice 750-1000 30.25-31.00. Good 29.00-30.25. Standard and Low-Good 28.00-29.00.

COWS: Utility and Commercial 23.00-24.75, Canner and Cutter 20.50-32.50, Mixed Cutter and Low-Utility 23.75-24.00. Shelly Canner 18.50-20.00.

BULLS: Utility, Commercial and Good 29.00-32.50, Commercial 1-2 33.00-34.00, Cutter and Low-Utility 26.00-29.00.

FEEDERS: Outshipments of approximately 1500 head as compared less than 500 head previous week. Prices weak to 1.00 lower in sympathy with downward plunge of fed cattle prices, but still fairly good demand for fleshy 950-1025 pound two-way steers which comprised bulk of supply.

STEERS: Load Choice 462 pounds 49.00. Two loads Choice 699-743 38.75-39.00. Few consignments Choice 950-975 moderately fleshed 33.00-33.50. High-Good and Choice 938-1048 32.00-32.75. Standard and Low-Good mostly Holsteins 1000-1100 30.50-31.00.

Futures Trading

(Closing bids as of Wednesday, November 22)

	Chicago Cattle	Chicago Hogs	New York Maine Potatoes	Chicago Fresh Eggs
December	34.75	29.90		36.50
January '73				37.60
February	37.30	29.25		38.00
March			4.94	
April	37.60	26.40	5.12	
May			5.68	38.30
June	37.65	26.95		
July		26.95		
August	36.75	25.05		
October	35.95	23.50		
April				37.60
May				34.60

Trend - Cattle are steady, Hogs are steady, Potatoes are stronger, Eggs are stronger.

a-asked b-bid n-normal

Markets provided by Commodity Dept., Reynolds Securities, Inc.

Regional Hay Prices

Monday, November 20, 1972

(All hay No. 2 and better, prices paid by dealers at the farm price per ton.)

Hay and straw steady.

Alfalfa	50.00-55.00
	few to 65.00
Mixed hay	35.00-50.00
Timothy hay	30.00-40.00
Straw	25.00-35.00
Mulch	14.00-20.00

Green Dragon

Friday, November 17

36 loads hay, including: One load Alfalfa, 71.00; Timothy, 43.00 - 64.00; Mixed hay, 39.00 - 66.00, few 88.00 - 91.00; Couple loads Orchard grass, 43.00 and 45.00; two loads Clover, 55.00 and 84.00; one load Crown Vetch, 59.00.

17 loads straw, 34.00 - 38.00.

7 loads corn, 39.00 an 43.00, one load at 50.50.

Dairymen to Vote On Milk Promotion

A statewide referendum on Jan. 12-26, will determine if dairymen are willing to support a milk promotion program at the rate of five cents on every one hundred pounds of milk sold.

Ballots will be mailed to all 21,500 milk producers in the state. Cooperatives will be eligible to use bloc votes for Pennsylvania members, however, individual members may choose to vote alone, in which case their vote will be deducted from the cooperative's bloc vote.

If the promotion program is approved, dairymen will be assessed at a rate of five cents per hundredweight of milk sold. Based on 1971 production figures, this would mean eligible dairymen in the state could support a $2.5 million program, annually.

Producers paying into a federal milk marketing order promotion program would be exempt from the state program. Dairymen in the southeastern part of the state currently pay into a federal promotion program.

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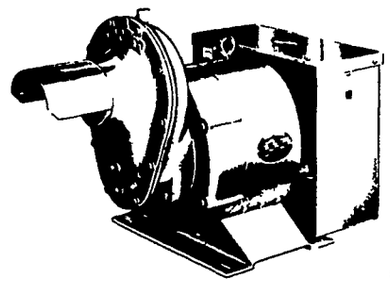

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Poultry Market Reports

Eastern Pa. and N.J.

Live Hen Market
Wednesday, November 22

Prices of light type hens unchanged. Demand fairly good for barely adequate offerings for next week. Heavy hens short of a fair call. Prices paid at farm: light type hens 6-8½ Mostly 7½-8 In Pa. Mostly 7½-8 In N.J.; Heavy type Hens TFEWR.

Fogelsville

Directions - Take Rt. 22 thruway. Exit at Fogelsville Exit. North on stoplight in Fogelsville. Turn left, proceed 1 block, take next left turn. Poultry Auction 100 ft. on right.

Tuesday, November 21

(Prices paid dock weights cents per pound except where noted.)

No market reported.

Auction every Tuesday. Poultry received Monday 7 P.M. to 10:30 P M., Tuesday 7 A.M. to 12 Noon. Sale at 11:30 A.M.

Delmarva

Broilers
Wednesday, November 22

DELMARVA- Ready-to-cook movement seasonally good as buyers prepare for weekend needs. Slaughter schedules heavy at some plants while others closed completely. Advance interest good at prices generally 1c higher than this week's levels. Less than trucklot prices trended higher within unchanged ranges on both plant and U S. Grade A.

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Lancaster County's Own Farm Weekly

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Record-Express Office Bldg.
Phone: Lancaster 717-394-3047 or Lititz 717-626-2191
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Weekly New York Egg Market

(From Monday, November 20th to Friday, November 24th)

	Mon.	Tues.	Wed.	Thurs.	Fri.
WHITE					
Fcy. Ex. Large	46	46	46		46
Large	46	46	46		46
Mediums	44	44	44		44
Pullets	40	40	40		40
Peewees	29	29	29		29
BROWN					
Fcy. Large	51	51	51		51
Mediums	Unquoted				
Pullets	Unquoted				
Peewees	Unquoted				
Standards	38	38	38		39
Checks	20	20	20		20

A HAPPY THANKSGIVING TO YOU ALL.

Long Tone - Fully steady. Extra Large and Jumbos a problem at some plants, otherwise all grades well cleared.

USDA Adopts Twice Weekly Egg Reports

The U.S. Department of Agriculture will mail egg market news information twice weekly instead of daily from several locations, USDA has announced.

The change will take place in locations where egg market news reports are published separately—in some locations egg market news is included in combined daily reports on eggs, poultry, dairy products, and other products. There will be no change in the issuance of these combined reports.

The change to mailing reports twice weekly (Tuesdays and Fridays) will occur in Newark, N.J.; Chicago, Ill.; Atlanta, Ga.; and Jackson, Miss.

The twice weekly mailings, which are expected to bring about a reduction in the operating cost of the market news service, reflect an expected trend in the egg industry away from daily price negotiation toward once or twice a week sales, and come at the recommendation of an industry study group. The changes were proposed in the Federal Register Sept. 9.

New York Eggs

Tuesday, November 21

Market about steady. Local wholesale demand is slower with sales generally of a small lot nature. Distributors are lightly supplied on most grades however, offerings of large and occasionally mediums are adequate. Smalls are short for a spotty demand, extra large are fully adequate to ample.

Undertone continues nervous an spotty lighter sales develop for next week based on market values to be determined.

Live supplies adequate though weights often lighter than desired in some quarters while increasing in others where slaughter has been curtailed for several days.—Undertone firm. Negotiated trucklot prices 2-3 lb. ready-to-cook broiler-fryers for delivery next week: U.S. Grade A 29; Plant Grade 28-28½. Pool Trucklot prices for Friday arrival: U.S. Grade A 28½-32½ Mostly 29; Plant Grade 27½-30½ Mostly 2b.

THE OLD FARMER'S ALMANAC

NOV. 27 - DEC. 3

We begin to hear Winter trumpeting.

House your tools now . . . John Brown hanged Nov. 3, 1859 . . Last quarter of the Moon Nov. 27 . . . Gone are the leaves . . Average length of days for week, 9 hours, 18 minutes . Boys' Town founded Dec. 1 1917 . . . Hanukah Dec. 1 . . . Nap on the sunny side of the house now . Erie Canal froze over 1859 . . . Trust not one night's ice.

Old Farmer's Riddle: What would a cannibal be who ate his mother's sister? (Answer below.)

Ask the Old Farmer: What is the story on why we call a cow "Bossy," and say "S-o-o, Boss," when we want her to stand still at milking time? S. V., Albany, N.Y.

"Bos" is the Latin word for the genus of ruminants, cattle. The expression is probably ten thousand years old, more or less.

Home Hints Dip candle wicks in alcohol before lighting to insure ignition . . Kill cockroaches with a half-and-half mixture of borax and brown sugar *Riddle Answer* An aunt-eater.

OLD FARMER'S WEATHER FORECASTS

New England: Cold, Flurries up north. Rain mixed with snow for most of week. 8-12" snow in mountains by weekend.

Greater New York & New Jersey: Flurries turn to light rain and mild, lasting all week. Rain moderately heavy in latter part.

Middle Atlantic Coastal: Partly cloudy and cold, light flurries. Warmer by midweek, but a rainy and raw weekend.

Southeast Coastal-Piedmont: Begins clear and very cold, then much warmer. Light rain and mild for weekend, but turning colder.

Florida: Clear and warm for most of state, becoming warmer in north and central. Showers in south all week.

Upstate N.Y.-Toronto & Montreal: Partly cloudy and cold, then mild with light rain changing to 2-4" snow by Sunday.

Greater Ohio Valley: Cloudy and warmer, turning to rain, but mild by midweek Rain mixed with snow for latter part.

Deep South: Clear and warming, rain in north by midweek. Then rain all over, heavy in north, and cooler.

Chicago & Southern Great Lakes: Cold moderates and midweek is rainy and mild. Turns colder with scattered light snow.

Northern Great Plains-Great Lakes: Cloudy and slight warming, then colder with snow through weekend. Turning milder, showers in west.

Central Great Plains: Begins clear and warm, then rain and turning colder. Rain mixed with snow, ending but cloudy.

Texas-Oklahoma: Increasing cloudiness and warmer, then cooler with rain, breaking for one clear and warm day, but week ends cool and rainy.

Rocky Mountain Region: A snowy, cold week: 10-12" in mountains, 4-6" in north and central in latter part. Partial clearing and warmer by Sunday.

Southwest Desert: Increasing cloudiness with rain, often heavy, and cooler by midweek. Rain ending, clearing and warmer for weekend

Pacific Northwest: Rain continues all week as temperature becomes colder. Somewhat warmer by end of week.

California: Rain ending, cooler. Clear by midweek, then more clouds and rain A clear, warm weekend in south.

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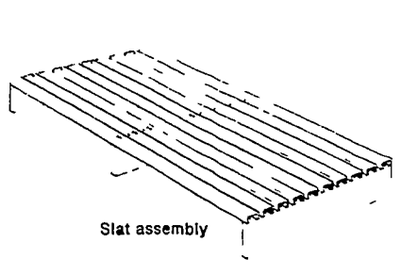

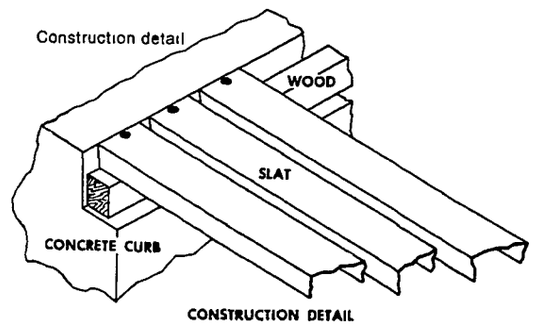

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USDA Marketing Teams Report Findings

Capping months of intensive research, five marketing teams have presented their findings to Agriculture Secretary Butz.

The Secretary named the teams last February as part of a new effort to life farm income. Their assignment: recommend solutions for the problems confronting five major commodities—apples, eggs, pork, canning peaches, and potatoes.

The study groups were headed by USDA people and included State, university, extension, farm, and industry representatives.

The teams based their reports on interviews, conferences, and consultation with growers, processors, agri-businessmen, trade experts, State and Federal personnel, and other interested members of the commodity industries.

Some of the major problems uncovered by the teams were common to all the commodities. Oversupply and unstable volumes and prices loomed largest.

Surpluses have resulted mainly from failure of the commodity industries to find markets for increased production, caused in part by the continued entry of new producers. For some of the commodities, the surplus dilemma has deepened with recent losses of export markets.

Similarly, lack of stability in some commodities has stemmed from entry of new producers and accelerated output when prices are favorable, and a pulling out when prices drop.

The marketing teams recognized that boosting per capita consumption poses one of the biggest challenges to each industry. All teams saw the need for better organization and coordinated commodity promotion programs.

Team members found that past promotional efforts were often fragmented and missed their mark. One report noted that promotional materials in some cases seemed to be designed to "impress industry colleagues" rather than influence consumers.

The teams further recommended that promotional efforts place special emphasis on reaching the youth market. Several of the study groups added that promotion programs should focus on the expanding market for food eaten away from home.

Each team stressed the importance of continued research for new products that are tastier, have longer shelf lives, are less susceptible to damage and disease, have more appealing textures, etc.

New product research should also focus on innovative packaging techniques, and new styles and sizes of servings with built-in consumer appeal.

Examining commodity grading practices, the marketing teams advised that grading systems be improved to adequately reflect product quality. Some teams recommended a complete overhauling of current grading practices. Other prescribed the elimination of grades that are seldom used.

Many industry spokesmen said they favored stricter grading systems that would keep inferior goods from entering the market. Improved grading standards might bolster consumer confidence in the commodities, simplify purchase decisions, and result in bigger sales.

The marketing teams also investigated growers' charges that:

- marketing margins are excessive;
- processors are not giving them a fair deal;
- USDA statistics and market reports are incomplete and lack

(Continued On Page 7)

State Potato Production Down 29 pct. from '71

The Pennsylvania potato harvest was about 95 percent complete on November 1 and the estimate for the year is now 5,550,000 hundredweight (cwt.), according to the Crop Reporting Service, a joint service of the Pennsylvania and U.S. Departments of Agriculture.

Acreage, yield and total production are all down sharply from a year earlier with this year's results reflecting heavily the ravages of tropical storm Agnes.

The total production was off 29 percent from last year and 33 percent from 1970. Total acres planted dropped 5,500 to 30,000 and the yield (per acre) at 185 cwt. was reduced by 35 cwt. from 1971.

Production of fall potatoes was off throughout the United States with the November 1 estimate now placed at 234,571,000 a decline of eight percent from 1971.

Pennsylvania is ranked 12th in the U.S. in potato production with the value of last year's harvest placed at $$22,046,000. Lehigh, Erie and Cambria County account for 30 percent of the total.

Book Elected By Interstate

Roy H. Book, Ronks R1, was elected a director of the Inter-State Milk Producers Cooperative at a recent meeting in Philadelphia. He is one of 24 directors from Pennsylvania, New Jersey, Delaware and Maryland representing some 3000 dairy farmers.

Book will represent the cooperative's sixth district at all board meetings.

Unpublicized American

James Bridger was an American who had an intimate knowledge of the mountains and the Indians, from New Mexico to Idaho. He did much to publicize the Yellowstone Park region, and is credited with being the first white man to see the Great Salt Lake.

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And locally, Galen L. Boyd of Lebanon planted PX 616 with PX 50A to take second place in the 1971 N.C.G.A. Yield Contest for Pennsylvania.

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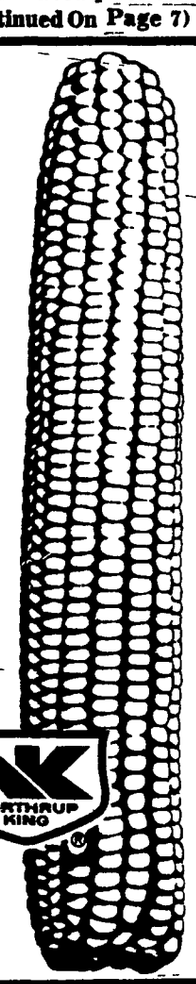

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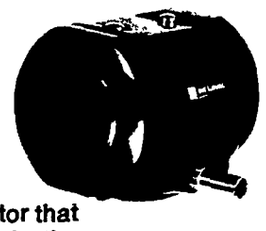

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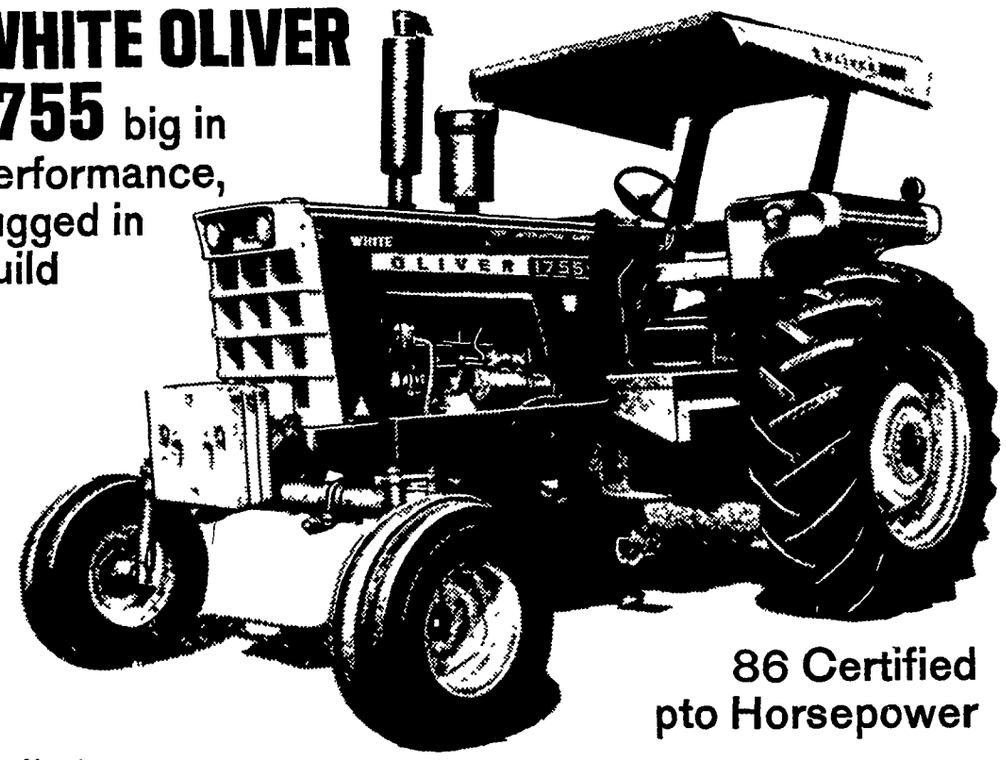

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USDA

(Continued From Page 6)

relevance for production decisions; and
- their products are "subsidizing" other items in the supermarket.

In making their recommendations, the team usually indicated what action should be taken in the short run, and what problems would take longer to solve. Some of the key findings follow:

EGGS

The egg marketing team called for some type of quantity or price adjustment program to solve the industry's most pressing problem—instability of output and prices. It recommended a special study of the possibilities of:
- quota programs;
- pricing programs without regulation of volume; and
- price support devices that encourage voluntary compliance with out-put goals.

An in-depth study would be completed by mid-1973, and results would be widely circulated and discussed before any positive action would be taken.

The egg team found that certain income tax policies have led to the industry's overexpansion and instability. For example, most egg producers now use the cash accounting method for tax purposes, which permits the reporting of expenses when incurred and income when it is received.

This method encourages producers to reinvest net income, before taxes, into expansion of their operations in good years. That's because a producer can write off in the current tax year the entire cost of raising a bird to laying age, even though the bird won't generate revenue till the following year. In effect, the producer saves on taxes, and uses this money to make additions to his laying flock.

The egg marketing team prescribed two steps to hold back industry expansion: (1) that a laying hen be treated as a capital asset, with cost deductions deferred until the hen goes into production; and (2) that all egg producers, as soon as feasible, convert to the accrual method of accounting, under which taxes are paid on the basis of changes in inventory value.

During its investigation, the egg marketing team received many comments that the various statistical series published by USDA agencies should be revised or expanded to help industry decisionmaking and outlook projections.

Among the team's suggested changes:
- USDA's Statistical Reporting Service (SRS) should make separate estimates for eggs produced for table use and for hatching;
- SRS should report all egg data on a calendar year and calendar month basis;
- USDA's Market News Service should release monthly inventories of egg solid stocks on hand;
- The Market News Service should report weekly retail prices for cartoned eggs in a substantial number of cities in every major region.

The team further advised that USDA and the industry compile and periodically revise a nationwide inventory of locations, sizes, and characteristics of egg-producing flocks. This would provide a broad data base, and an up-to-date reference for Civil Defense and various disaster relief agencies.

PORK

The pork marketing team claimed that today's hog is meeting consumer demands—more protein and less fat. Over the past 2 decades, fat content of the average hog carcass has been trimmed about 20 pounds, and replaced by lean.

Nevertheless, pork still suffers from a negative consumer image; namely, that it's too fatty and too fattening, that it's unsafe to eat unless thoroughly cooked, and that its quality is inconsistent and unreliable.

A consumer knowledge gap about the merits of pork, the team reported, may be the industry's most pressing problem. Besides intensive promotion, bridging this gap requires continued research into production and marketing practices that will lead to consistently high pork quality.

The pork team called for vigorous research in breeding, reproduction, and nutrition to increase the number of pigs marketed per sow. Also, it recommened the establishment of national standards to identify superior sires with potential to produce high-value pork products.

The pork team also prescribed further research into the causes and prvention of hog diseases—still the single most important factor in limiting pig production—and a uniform national system of producer and slaughter hog identification. The system would help offials trace the source of a disease and contain its spread.

Packers have already begun programs to trace animals back to producers, but these systems vary from one packer to another. Most producers interviewed favored a uniform identification system. They also felt this kind of program should be designed to reward producers of high value hogs as well as to identify and discount lower quality animals.

To avoid high freight charges and eliminate the stress and weight loss suffered by hogs during transit, slaughter hogs have been sold increasingly in decentralized local markets rather than large terminal markets. This, however, exposes the hogs to a limited number of potential buyers, and thus reduces competition.

To minimize movement of live animals and maximize competition, the team urged

(Continued On Page 9)

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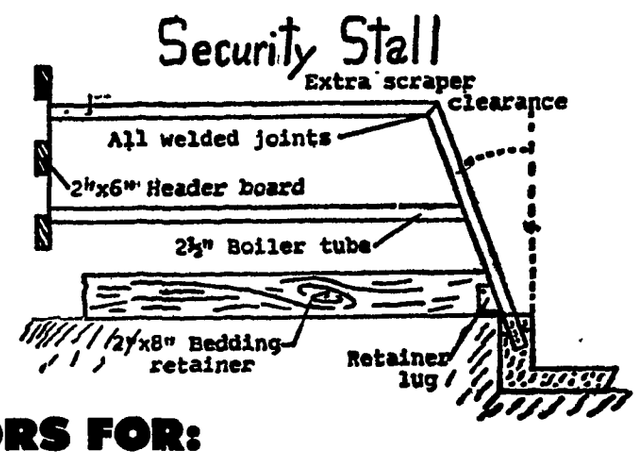

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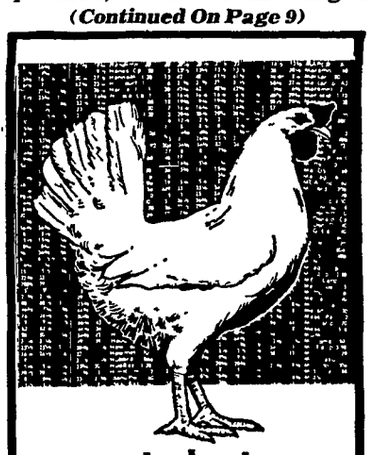

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Ice Follies at Hershey Next Week

Ice Follies "Spectrum '73," featuring Miss Trixie Schuba, recent Gold Medal winner at the 1972 Winter Olympic Games in Sapparo, Japan, is coming to Hersheypark Arena for a six-day engagement from Nov. 28 to Dec. 3.

The traditional family show, offering its own special appeal for everyone, will play nine shows in the Arena with performances scheduled for Tuesday through Friday at 8:10 p.m.; Saturday at 1, 5 and 9 p.m.; and Sunday at 2 and 6 p.m.

Ice Follies '73 heads for Hershey coming off nothing but excellent reviews from other arena dates it has played across the country. The Los Angeles Times perhaps summed it up best with the comment, "the pacing of this year's show is such that no one dares leave his seat for the duration of the show."

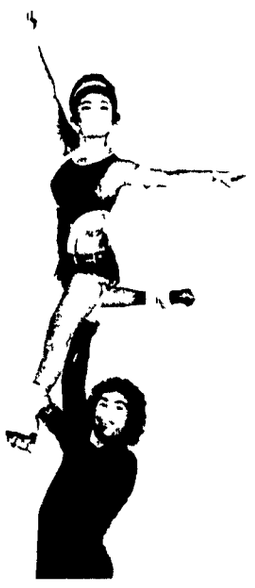
Joining Miss Schuba is an incomparable skating cast including such name performers as Richard Dwyer, Karen Kresge, Ricky Inglesi, Susan Berens, Christy Ito, and the United States Dance champions, Judy Schwomeyer and Jim Sladky.

An exciting young black skater, Atoy Wilson from Los Angeles, makes his debut with the 1973 edition. The first black ever to be featured as a solo performer with any major ice show, Wilson brings a new freshness and vitality to the art of free skating.

Ricky Inglesi is fast becoming the ice skating world's answer to young pop stars such as Donnie Osmond and David Cassidy. His strokes are vigorous and his figures are well-plotted, resulting in a certain charm that is all his own. He's the teeny-bopper idol of the Ice Follies presentation.

And of course Charles Schultz' lovable, floppy-eared beagle. Snoopy, is back again to sniff out the hearts of the youngsters in the crowd. Snoopy on ice has been a very successful Ice Follies adventure, and this season Snoopy is featured in a completely new routine.

The production numbers will again feature the Ice Follettes, plus all the stars, with elaborate staging, costuming and lighting effects. Also, according to all reviews of the show, the best '73 musical score offers the best in



contemporary sound and originality.

For sheer laughter, the ageless Mr. Frick will be on hand, joined by the Scarecrows, Funsters and Kevin Bupp. Another newcomer, David Comb, introduces his acrobatic skating routine that is unparalleled in skating circles.

It all boils down to the point, "you might have seen Ice Follies before, but you've never seen Ice Follies like this." Tickets for the show are $3.50, $4.50 and $5.50, with children 11 and under half-price for the Wednesday and Thursday performances only.

* * *

Mother Tongue

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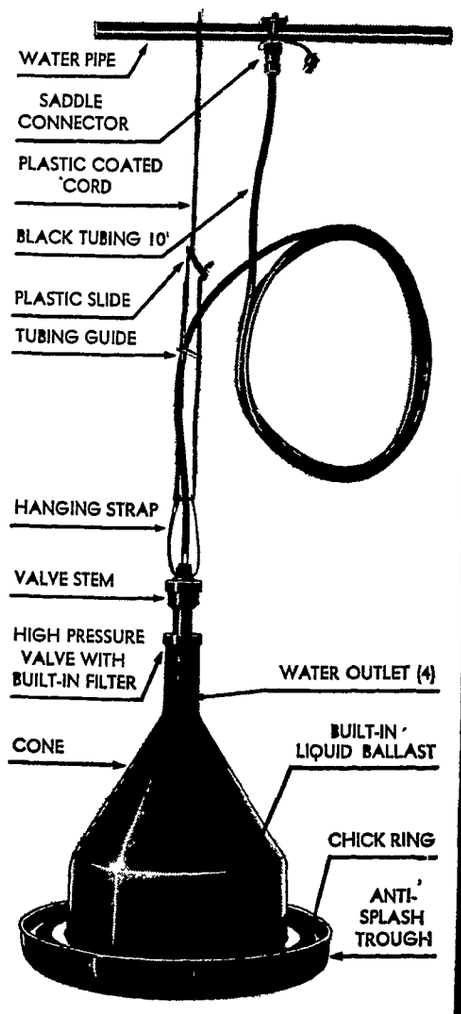

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USDA

(Continued From Page 7)

development of a uniform system of describing hogs that can be easily understood by all buyers and sellers.

Under such a system, hogs would remain on farms or in local markets. Buyers would bid for them in national or regional auctions via telephone or teletype facilities.

The prk team found a need for increased use of grading at all stages of marketing, but at the retail level in particular. Federal grades should be established for all major retail pork cuts to help consumers select products of an assured quality. In the past, retail grading has been minimal, varying from day-to-day and from store-to-store, resulting in a loss of consumer confidence.

APPLES

One of the apple industry's biggest concerns has been the large volume of poor qulaity apples that are offered to consumers, particularly in the fresh market. In turn, consumers question the quality of both fresh apples and processed apple products.

To prevent inferior apples from entering the retail market, the team advised that condition be made a part of the grade system (apples are now graded mainly by color). Decay, breakdown, and other deterioration developing during storage or transit would be scored against the grade—as is now done for most other fresh produce.

In addition, the team recommended that U.S. No. 1 and other seldom-used lower grades be abolished. It also urged the establishment of national controlled atmosphere standards for condition.

The team found that rough handling during harvesting, packing, transportation, and retailing caused substantial losses in apple quality. It recommended that the industry develop and test more durable polyethylene bags, as well as rigid or semi-rigid consumer packages, and suitable shipping containers.

As another way to keep low quality apples off the market, the team urged that the industry consider a tree removal program. The program would encourage removal of outdated apple varieties, as well as old trees that produce poor quality fruit, and trees serving as havens for disease and insects.

The apple marketing team advised the industry to prevent surpluses by expanding exports. For instance, the industry might launch a fact-finding team to explore potential markets in Latin America and the Far East.

The team also recommended more effective action to deal with competition from imports. Under most existing Federal Statutes industries must first demonstrate proof of injury before qualifying for import relief. The marketing team urged members of the apple industry to plan a program that is more responsive to a threat from foreign imports.

The apple marketing team suggested that all producing areas be eligible for marketing orders for fresh apples and apples for processing. The industry should consider the usefulness of marketing orders in:

- establishing grade, size, and quality regulations
- developing nationwide and regional promotion programs;
- overseeing mandatory apple inspection;
- developing uniform regulations for containers; and
- funding research programs

POTATOES

The potato industry's dilemma of overproduction and low prices has resulted mainly from increased yields in recent years, and the reclamation of new land in several Western States. A 1970 report revealed that more than 300,000 acres had been planted to potatoes in reclamation projects over the past 10 years.

The potato marketing team found there was substantial support among growers for some form of supply management. The team recommended that the Secretary of Agriculture confer with industry leaders to determine if any particular type of supply management program would be feasible.

Meantime, the team urged that restrictions be placed on developing new land for production of potatoes, or any other crop that's in surplus supply.

The potato marketing team encoutered a deep industry concern for developing and maintaining high product *quality, particularly during transit.*

Some of the difficulties:

- Periodic railcar shortages impede movement of fresh potatoes;
- Unsatisfactory rail equipment and shipping practices result in protato damages;
- Coast-to-Coast transit time has lengthened to 10 days or more, upping the risk of quality deterioration;
- Successive freight rate increases are driving up transportation costs.

The potato team prescribed a joint industry-government study to determine the industry's transportation requirements. Specific equipment needs should be identified, and special emphasis given to the impact of new, larger rail cars on potato condition and the storage facilities of shippers and receivers.

In all regions visited, the team received complaints that potato purchasers were frequently delaying payment by as much as 60-180 days.

The delays create credit problems for producers and shippers, as well as violate the Perishable Agricultural Commodities Act (PACA), which calls for payments within 10 days of delivery. Growers and shippers were reluctant to report these violations for fear of reprisals.

Among the team's recommendations was that the industry consider a national credit card system to be used for all potato purchases from grower to retailer. The credit cards would be issued only to those with good credit ratings and a PACA license. Sellers would receive payment within a specified billing period, and current banking regulations would eliminate the problem of late payments.

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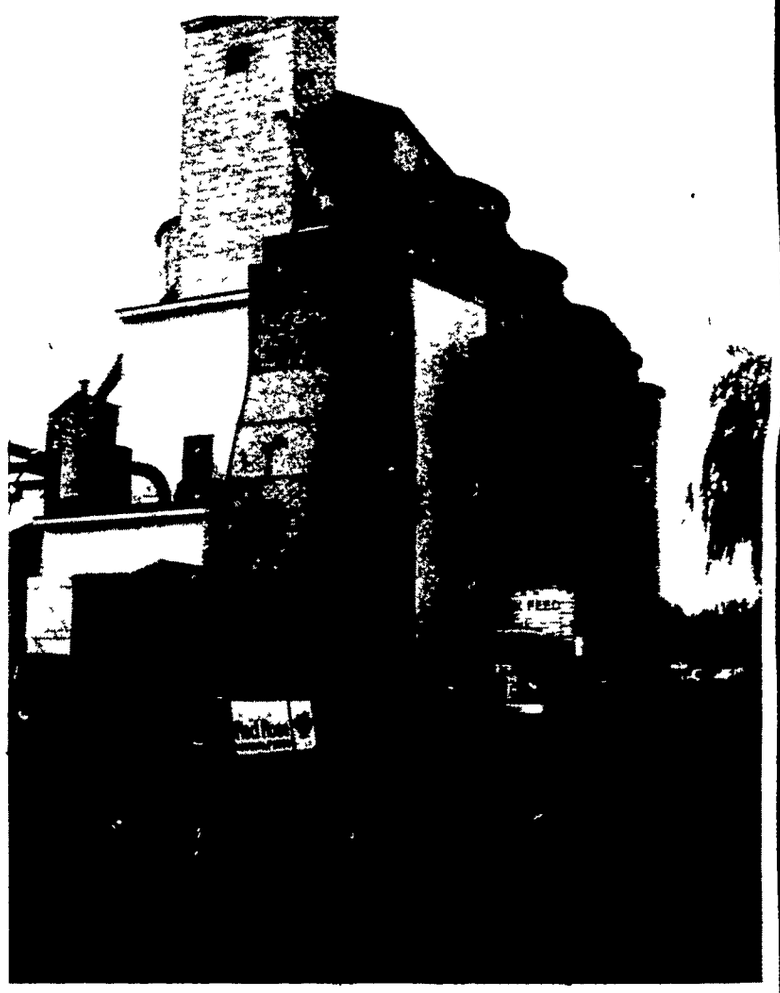

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We're 18 This Week!

This issue starts LANCASTER FARMING's 18th year. In the months and years ahead, we hope to continue serving as the area's principal spokesman for farm, agribusiness and rural interests, and to that end we pledge our continued enthusiasm.

LANCASTER FARMING today serves more farm families than ever before. This is a testimonial to the strength of agriculture here in what has traditionally been one of the state's and the nation's strongest agricultural areas.

We'd like to take this opportunity to thank our advertisers and subscribers, and that army of people who make our job so much easier by keeping us informed of upcoming events and happenings in America's Garden Spot.

Farm Price Controls

Continuing inflationary pressures leave little prospect that wage and price controls will be dropped anytime soon. Instead, in spite of the dislocations they entail, many are calling for more and tighter controls. Little foresight is needed to visualize a rash of proposals for bringing farmers under the blanket of price ceilings. The results could be catastrophic to the nation's food supply-in view of rising farm costs.

In the words of Mr. William J. Kuhfuss, president of the American Farm Bureau Federation, "Inflation has raised the high cost offarmingto a record level-the index of prices paid by farmers, interest, taxes, and wage rates is now 428 percent of its 1910-14 base." Farm production expenses in the first half of 1972 were estimated, by the farm leader, at an annual rate of $46 billion-about $2.5 billion above last year's level. Mr. Kuhfuss once again reiterates the basic principles at the root of inflation. He says, "Inflation is a serious threat to economic stability in our economy today-not only for farmers but also for all citizens, and most economists recognize that government spending in excess of income is the primary cause of inflation. Price and wage controls are not an effective means of controlling inflation . . ."

The persistence of Congress and politicians in ignoring these principles and the habitual practice of bragging to the home folks-the voters-about how much money has been pried out of the federal treasury for local projects represents the work of charlatans, not the efforts of devoted statesmen and public servants.

Real Cost of Food

When the chairman of the President's Council of Economic Advisers reported a short time ago that the average worker's ability to buy food had increased in the past year, he exposed himself to the inevitable blast of criticism from consumers acutely aware of one cold fact. The prices of many things are higher today than a year ago. But, the President's Economic Advisers spoke the turth when they reported that most consumers are better off.

As columnist John Cuniff puts it, " . . . American families spend a lower percentage of their disposable income on food than they did a year ago. This has been the case year after year since the end of World War II. Twenty years ago in 1952 the American family spent 23 percent of take-home pay of food. The percentage fell to 20.7 in 1957, to 19.3 in 1962, to 17.4 in 1967, to 15.8 last year. It continues to fall." Mr. Cuniff also pointed to a fundamental characteristic of American life-the desire to constantly improve in every way-from the cars we drive to the food we eat. Just as today people look for better cars than they did in the days of the model T, they also look for better cuts of meat and more prepared foods. But these cost more. Irritating as it may sound to the hard pressed housewife, we eat at a relatively lower cost today than ever before-and we eat higher on the hog.

Common Sense on Diet

Most of us have an inborn strain of common sense that comes to our rescue when we're up against judging courses of action that closely affect our way of life and state of health. This is becoming evident once again-this time in the field of nutrition.

In the initial stages of the diet-heart controversy 10 or 15 years ago, saturated animal fats and cholesterol were widely pictured as the culprits in the coronary disease picture. Commenting on this early period and subsequent developments, Dr. Roy M. Kottman, Dean of the College of Agriculture and Home Economics, The Ohio State University, observed: "Today, more than 15 years after nationwide publicity caused cholesterol to become a word to be feared in many households . . . growing numbers of medical and nutritional scientists are concluding that heart disease is probably caused by a complex of factors, many of which may be as yet unidentified, and that the indictment of saturated animal fats appears not only to have been premature, but quite probably incorrect."

One very good thing came out of the controversy. It sparked an immense amount of activity in the field of human nutrition research, much of it initiated and carried on, directly or through grants, by various elements of the food industry. New knowledge of nutrition comes everyday. But so far nothing has changed what has always been sound advice for the normal, healthy person. Keep your weight in the normal range, eat a balanced diet-including the four basic food groups-avoid food fads and follow your physician's advice should modification of any part of your diet be necessary for a specific medical problem.

Grassroots Opinions

GLASGOW, MO., MISSOURIAN: "'Come home—all is forgiven' may have been all right for the prodigal son, but—grant amnesty (Webster says it means full pardon) to those who escaped military service by taking up residence in another country? No way!...how must the boys feel who harkened to the call of duty and went to serve their country in a war in which no one actually believed, when those who escaped via the over-the-border route are welcomed home with open arms? It may seem a little uncharitable, but we simply cannot see amnesty for draft dodgers. If they chose to abandon the United States, let 'em stay where they went."

NOW IS THE TIME . . .

Max Smith
County Agr. Agent
Telephone 394-6851

To Protect Cattle Against Respiratory Infections

Shipping Fever and IBR are two infections getting more common on many livestock and dairy farms. A new vaccine which can be sprayed into the nostrils of cattle offers safe protection from IBR and shipping fever; within four days of administering the nasal vaccine cattle have good levels of protection, and protection against IBR lasts for at least two years. Shipping Fever vaccines usually do not offer solid protection for more than one year. Normally all animals over four months of age should be vaccinated. During outbreaks of IBR, veterinarians have found it better to vaccinate all animals in the herd regardless of age. Cattle owners are urged to give this vaccination method some consideration. Prevention is much better than any attempted cure.

To Use Care With Antibiotics

There are many types of vaccines and drugs being used on various species of livestock; all of them serve a definite purpose when administered properly. They have proven to be beneficial in saving animals and in efficient production. All livestock owners are urged to be very careful in following the directions of the manufacturer when using these antibiotics. In many cases there are withdrawal periods in which the milk or meat of the animal is not to be used. Quality food production must be attained and farmers must exercise special effort to assure the consumer of a safe food product. Follow the instructions and regulations accurately. There is no other way.

To Inspect Electrical Capacity

As cold weather approaches new demands are made on electrical systems to supply power for space heaters, additional lights, brooding equipment, and many other uses. Having to replace fuses, or reset circuit breakers often, or if the lights flicker when a pump or the refrigerator motor starts, means the wiring system may be overloaded and needs checking. These signs are warning that the wires may be overloaded and may become too hot and a fire hazard. To replace a fuse with a larger one is only creating more of a fire hazard. If electrical systems show these symptoms, consult with a local power official or an electrician.

THE BIBLE SPEAKS

International Uniform Sunday School Lessons

BY LAWRENCE W. ALTHOUSE

CROSSES AND DRAGONS

Lesson for November 26, 1972

Background Scripture: Micah 4:1-4, Matthew 24:3-14; James 4:1-10.
Devotional Reading: Psalms 67

This past summer in Norway I saw some of the famous Norwegian "stave churches." These churches, entirely constructed of wood, are both picturesque and historically interesting. They were built over a thousand years ago shortly after the Norwegians were converted from paganism to Christianity.

Rev. Althouse

One of the significant features of these churches is the use of both pagan and Christian symbols. Though there are are crosses, are also an abundance of carved dragons heads. Behind this strange mixture of pagan and Christian is the fact that the Norwegians were not converted to Christianity by any great revival of the spirit, but by the sword. They were given the choice to either embrace Christianity or die. They chose to become Christians.

Hearts ruled by dragons

Therefore, though they confessed Christ in their worship, the dragons still ruled their hearts and these people continued to plunder and pirate until all Europe came to fear the name: Viking! Their conversion to Christianity had little effect upon their love of battle and glorification of warfare.

Actually, we should not find that hard to understand. We too have the same ambivalance on this subject of warfare. We celebrate the birth of Christ with shouts of "Peace on earth!" and we worship him as the Prince of Peace. Yet, at the same time, we continue the curse of warfare and conflict. Despite our confessions of faith, it seems the dragons still have a firm grip on our hearts.

From coveting to killing

One of the reasons for this inconsistency is that greed and pride are often stronger than our desire for peace. One of Abraham Lincoln's neighbors in Springfield, Illinois, one day heard a commotion in the street. Opening the door, he found Lincoln and two of his boys wailing loudly. "What's the trouble?" the neighbor wanted to know. "Just what's the matter with the whole world," said Lincoln. "I've got three walnuts, and each wants two."

Lincoln was right: the trouble between his two children was nothing less than the trouble between most men and nations. The writer of the Epistle of James warns us:

> What causes wars, and what causes fighting among you? . . . You desire and do not have; so you kill. And you covet and cannot obtain; so you fight and wage war.
> (James 1:1,2)

Take a quick survey of the wars and conflicts taking place throughout the world today: James' analysis would be valid in almost every one. It is only a short step from coveting to killing.

(Based on outlines copyrighted by the Division of Christian Education, National Council of the Churches of Christ in the U.S.A. Released by Community Press Service.)

From Local Ag Teachers:

Thoughts in Passing

The article this week was contributed by Glenn Weber, teacher of agriculture at Manheim Central High School.

Show You Care

The Future Farmers of America organization serves as a laboratory providing students the opportunity to refine and develop knowledge and skills related to personal development taught in the agriculture classroom. Since the historical beginning of the FFA, millions of Americans have benefited from the educational training in leadership, communications, citizenship, service to others, social skills, and management of financial resources.

As a result, many of these former FFA members have become leaders in business, industry and government. Others have assumed responsible positions in their local communities.

Their FFA experiences have proved to be immeasurable in preparing them for their FFA activities and want to make sure that youth-today and tomorrow-have the same opportunity they had. With this concern for the nation's youth and its agriculture, these former FFA members organized the National FFA Alumni Association to promote and support the FFA organization and its activities, to promote a greater knowledge of agriculture, and to provide a tie for those who wish to help youth as they were helped in the FFA.

Since the alumni was organized on May 12, 1972, over 33 states have chartered associations and the national membership is now well over 10,000 members.

The alumni's potential to promote and strengthen our FFA program at the local level offers many exciting possibilities. Local alumni chapters can help educate others in agriculture and

Glenn Weber

generate support resulting in greater community involvement and thereby strengthening their agriculture program. For example, several local FFA alumni chapters are cooperating with the agriculture teacher in the occupational experience program and in placing of graduating seniors in the business community. Alumni chapters have also sponsored chain animals for FFA members, assisted in class field trips, served as judges in FFA contests, and provided educational resource speakers for the agriculture instruction. Alumni chapters can give physical, intellectual, and financial assistance to their local FFA chapter.

Opportunities for assisting the local chapter are as limited as one's imagination. Alumni members will receive a newsletter that will keep them up-to-date on new developments and activities of the FFA, the alumni association, and agriculture education. But most important, alumni members will have the satisfaction of joining together in a united effort to help educate others in agriculture-to build confidence in today's FFA members and provide inspiration-to share experiences, ideas, and goals with fellow alumni members and students of agriculture.

The FFA Alumni Association needs your support now. Take a few moments to do the following:

Join the FFA Alumni Association. All former FFA members, honorary members, current and former teachers of agriculture are eligible.

Choose a person to lead the way in forming an FFA affiliate in your area.

Suggest a few people for him to contact that can help him with the organization.

Membership and additional information concerning the FFA Alumni can be obtained by contacting the agriculture teacher in your local high school.

If you are proud of the FFA, if you want to help youth, if you want to join with others with the same goals and ideals, then the FFA Alumni Association can help to satisfy those desires.

The Pennsylvania State FFA Alumni Association extends an invitation to all potential members to the first annual dinner meeting at the Gettysburg Senior High Cafetorium on Thursday, December 7, at 6:30 p.m. National FFA Alumni president Gus Douglass, West Virginia Commissioner of Agriculture, and one of today's most dynamic leaders in our nation's agriculture, will address the group concerning the enthusiastic growth the National FFA Alumni has experienced recently.

A special program featuring the FFA Alumni Association will be presented by the Manheim FFA Chapter on December 4 on the WGAL TV Program "Noonday on Eight".

Hog Farmers Warned On Uncooked Garbage

A recent multiple outbreak of hog cholera in New Jersey has been tentatively traced to the feeding of garbage that was carrying hog cholera virus.

To prevent a similar occurence in Pennsylvania, "It is imperative for swine owners to properly cook all garbage, table scraps or other unprocessed material fed to swine," said Dr. H. S. Forney, acting director, Bureau of Animal Industry, Pennsylvania Department of Agriculture.

Feeding of raw garbage to swine is prohibited within the Commonwealth. It must be cooked at 212 degrees for a minimum of thirty (30) minutes. This destroys any residual virus, parasitic larve and other potential infectious disease organisms which may affect swine and endanger the entire swine industry.

Dr. Forney reported, "Hog cholera does not affect humans, but is highly contagious among swine. Full cooperation is mandatory to prevent this disease from being accidentally introduced into the Commonwealth."

All licensed garbage feeders have been warned to properly cook the material being fed or they will be forced to discontinue the practice of feeding garbage.

Individual farm owners must also be sure they thoroughly cook all table scraps, containing uncooked pork products, before feeding to swine on their premises.

Pennsylvania achieved Hog Cholera-Free status from the *USDA on July 19, 1971.*

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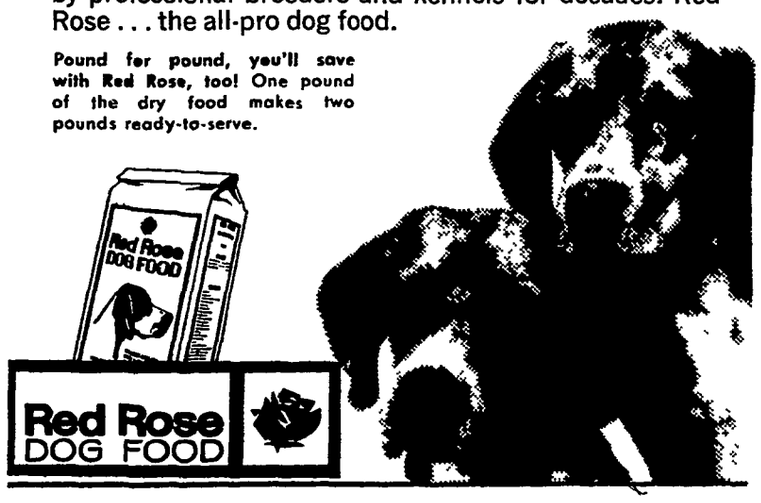

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So, save time, trouble, and money at planting time. See us soon about applying STARTER SPECIAL this spring as a dry "pop-up".

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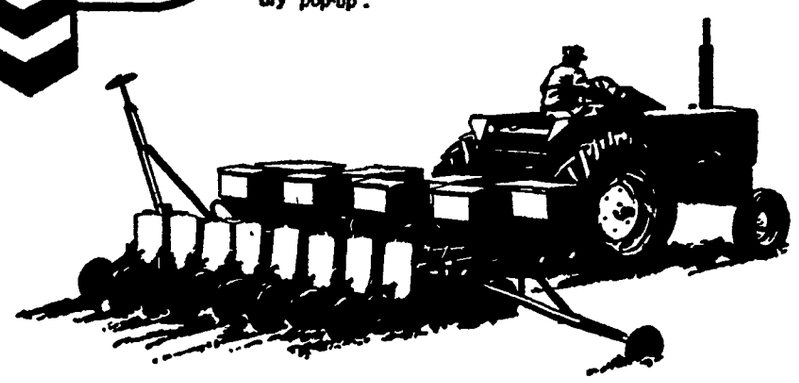

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ED ESHLEMAN'S WASHINGTON REPORT

Thanksgiving is an exclusively American holiday. It is rooted in our traditions, and is an expression of gratitude for all the blessings that are a part of our past and our present.

Every school child has been told the story of the Pilgrims who first gathered together with their Indian neighbors to give thanks for survival in a hostile, unknown land. They began the tradition that is today celebrated in every corner of the Nation.

But to truly understand what Thanksgiving has come to mean for us, we must also look at the rest of the heritage left by our Pilgrim fathers. They gave thanks not merely for survival, but for survival as free men who were building a new kind of life for themselves and their children.

Our tradition of religious freedom, almost unique in the world, is an outgrowth of the Pilgrim's search for a place where they could practice their beliefs with fear of persecution.

Constitutional government is basic to our way of life, and may be traced back to the Mayflower Compact which established the principle that government exists by consent of the governed.

Our Pilgrim forefathers have inspired us spiritually, intellectually and governmentally. Their willingness to face and overcome adversity and hardship were most important to the building of what has become known as the American spirit.

It was certainly that heritage that Abraham Lincoln had in mind when he first proclaimed Thanksgiving as a national holiday. In his proclamation, issued in the midst of the Civil War, Lincoln wrote,"The year that is drawing toward its close has been with blessings of fruitful fields and healthful skies. It has seemed to me fit and proper that they should be solemnly, reverently and gratefully acknowledged as with one heart and one voice by the whole American people."

Thus, Lincoln added another feature to the tradition of Thanksgiving by setting it aside as a special kind of observance. Today many families gather to celebrate it together, and thanks is offered within the family circle.

It is with all of the Thanksgiving heritage in mind—from the Pilgrim's dream of freedom to the turkey on your family's table—that I ask you to pause this year to remember the blessings that are uniquely ours as Americans.

Penn State Will Host Lime And Fertilizer Conference

The 1973 Lime and Fertilizer Conference, always a popular program for farmers, industry representatives, and professionals, is scheduled for January 24-26 in the J. O. Keller Building on The Pennsylvania State University campus.

The line-up of topics will focus on five general areas; liming, legislation, learning to live with an ecological balance, better crops through research, and crop fertilization and new cultural practices.

The January 24 session, which begins at 1:30 p.m., will feature such subjects as changes in Pennsylvania fertilizer and pesticide laws, basic soil types and their potential production, progress report on liming research, and liming and forage production. Speakers will be Nick L. Turko, chief of the Division of Feed and Fertilizer Control, Pennsylvania Department of Agriculture, and Penn State agronomy specialists Dr. Raymond F. Shipp, Dr. John E. Baylor, and Barry Parsons.

Discussions the morning of January 25 will center on organic farming, fertilizers for the future, environmental quality trade-offs, and the effects of soil and water pollution as related to the fertilizer industry. Speakers include Ed Wheeler, president of the Fertilizer Institute, Dr. George Smith, of the University of Missouri Water Resources Center, Dr. R. W. Heiper, Penn State agronomist, and Dr. Donald J. Epp, associate professor of agricultural economics at the University.

Penn State faculty members will present research-related subjects at the afternoon session on January 25. "Satellite Sensing" will be discussed by Dr. Gary W. Peterson; 'Influence of Soil Insects on Plant Nutrition Diagnosis" by Stanley G. Gesell; "Influence of Plant Viruses on Plant Nutrition" by Dr. Ernest L. Bergman; "Effects of Soil pH on the Activity of Some Common Herbicides" by Dr. Nathan L. Hartwig; and "Soil Testing-Changes and Use Patterns" by Dr. W. Wayne Hinish.

Friday morning, January 26, experts will discuss "Crop Fertilization and New Cultural Practices." Speakers will be James H. Eakin, Joseph H. McGahen, and Dr. Richard H. Cole, all Penn State agronomists, and C. B. Shear, plant physiologist, Agricultural Research Service, Beltsville, Md.

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Number of Animals_____

Check ☐ if attending school

Mail to:

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AGWAY

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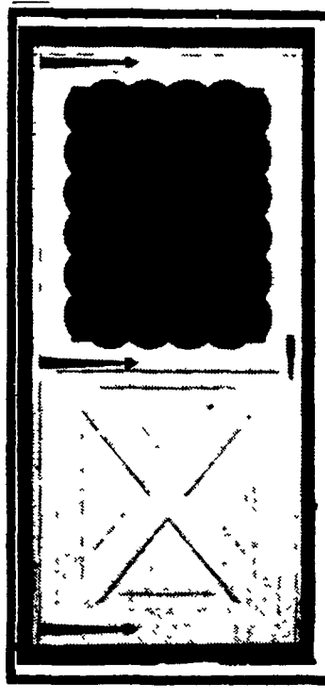

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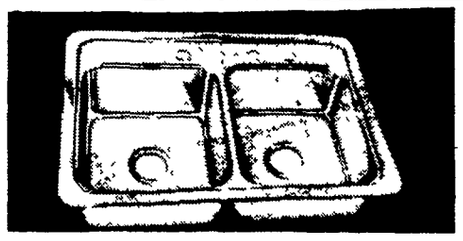

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SUGG. LIST 15.95..... **11.95**

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#26 Sliding door unit includes electrical outlet, incandescent light, enamel finish, glass shelf.
SUGG. LIST 16.95..... **13.95**

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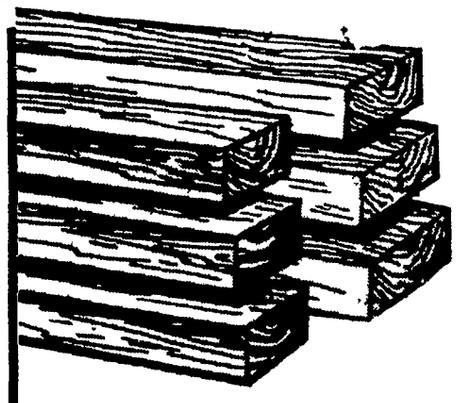

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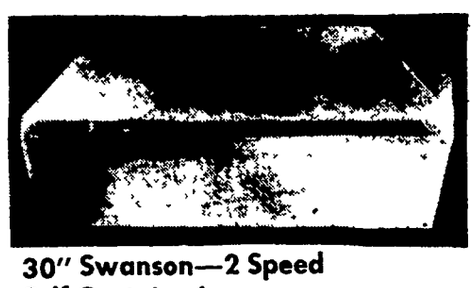
Deposit this coupon at our store during our 2 day sale No purchase necessary!



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- No ducts required
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DeLuxe Model..... 29.95

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FLOOR TILE

We have 15 patterns in stock 45 sq. ft. per ctn..... **7.49** per ctn.

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Easy to apply... just peel off the backer and press on the floor. Even a little lady can apply this tile. **11.95** per ctn.

45 SQ. FT. PER CARTON
You can do a 10'x20' room for only 35.85

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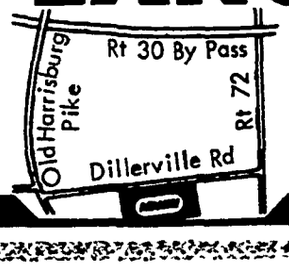

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AGWAY TELMARK

Quality Pays Off for Arabian Horse Breeder

Concentrating on quality rather than quantity has paid off in the show ring for Doreen (Mrs. John) Christensen. Mrs. Christensen is an owner and breeder of Arabian horses, and last week her eight-month-old weanling was named junior champion filly at the Keystone International Livestock Exposition Arabian Horse Show.

"It's very unusual for a horse that young to be a junior champion," Mrs. Christensen said. "I'm very proud of Silver Phoenicia, and I think she's going to be an excellent horse for us."

The Christensens are relative newcomers to the area, having moved to Manheim R4 just this past March. They bought a 19-acre farm formerly owned by the Loose family when Mr. Christensen's company transferred him to the area from West Virginia.

"We were very fortunate to find this place," Mrs. Christensen said. "It's just perfect for raising horses and it has an excellent set-up for riding classes."

The horse barn is about 200 feet long, has a number of stalls, a tack room, heated wash room and office. A 25-foot aisle running the entire length of the building provides an indoor exercise area for the horses.

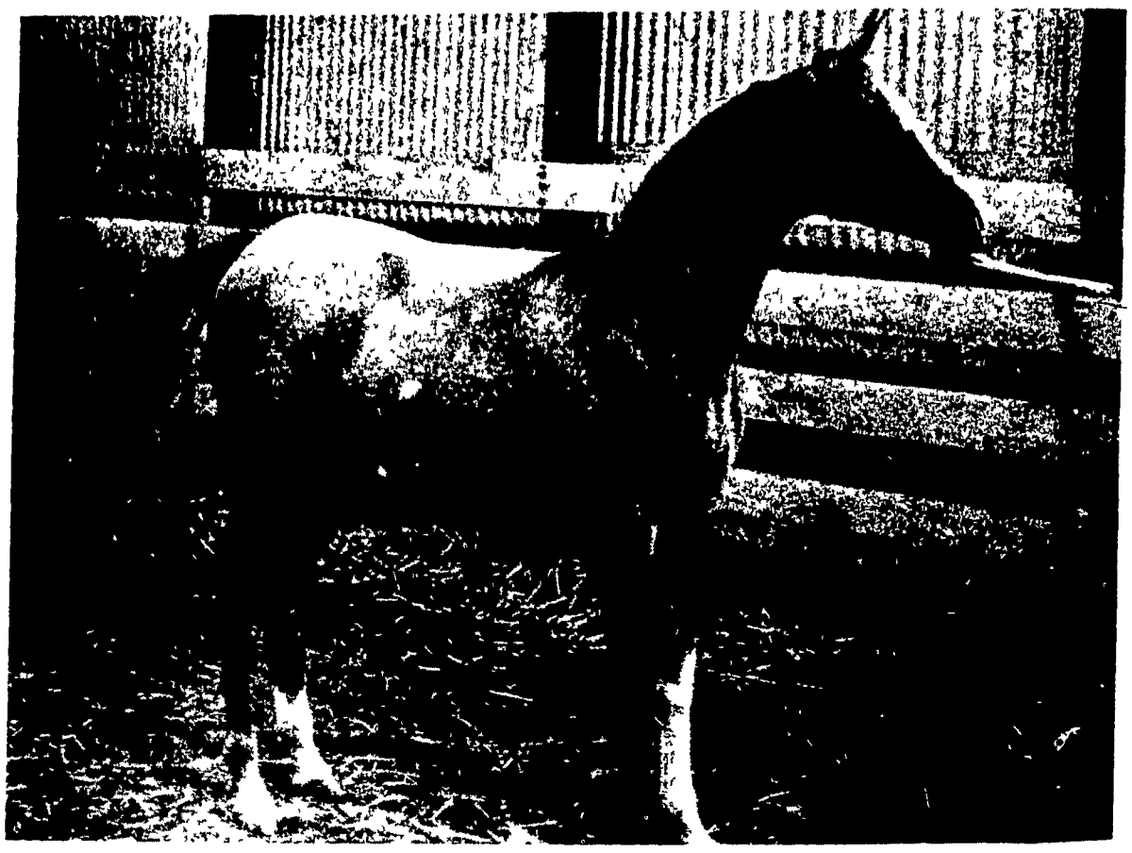
At the moment, the Christensen herd consists of an excellent four-year-old foundation mare, Rose Araby, and two of her fillies. "When we started in the horse business, we decided we'd rather concentrate on breeding a few top-quality horses than a lot of average animals," Mrs. Christensen said. "Naturally you pay more for good horses, but once you've got the animal, your feed and veterinary costs aren't any more than they'd be for an ordinary old hay burner.

"Rose is carrying her third foal now, and we're having her bred only to top stallions," she added.

Rose Araby is quite a show horse herself, having won a ribbon for being a top five East Coast mare at the 1970 Quentin Horse Show.

Arabians are the oldest recognized horse breed, Mrs. Christensen pointed out. They were first bred by nomadic tribes in the Middle East who used them

(Continued On Page 15)



Silver Phoenicia, a eight-month-old weanling, surprised many of the Arabian horse breeders by taking junior champion filly honors at the Keystone International Livestock Exposition. Her owner and breeder, Mrs. Doreen Christensen of Manheim, said it's very unusual for any horse under two years old to take a junior champion prize.

Doreen Christensen has an enormous appreciation of the Arabian breed. Mrs. Christensen is shown here with Silver Phoenicia, a prime example of the breed and already a prize-winner at eight months of age.

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Our Chain Will Fit Most Other Make Cleaners

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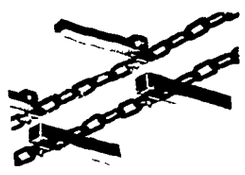

½ & ⅝" Nickel Alloy Chains With 2½" High Fleights

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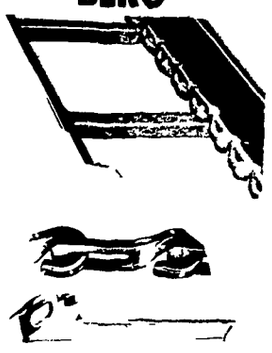

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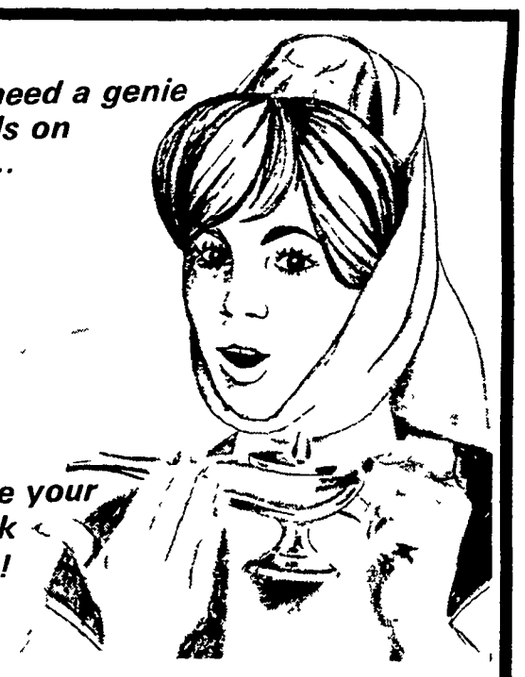

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FEED LETTER

Ca: P ratio!

Good grief who left the scientist out of his cage? Well before anybody ends it all out of frustration, let me explain the above title, Ca:P ratio. Ca stands for calcium, P stands for phosphorus, and ration stands for the amount of one in relation to the other. Did I hear someone say "big deal"? Well it is a big deal to your cows. Big enough to contribute to such cute little problems as milk fever and inefficient breeding.

According to the boys with the brians, there should be from 1 to 1.5 parts calcium for each part of Phosphorus. A happy medium might be 1.3 parts of calcium. This would be in the total diet of the cow, not just in the grain part. Most reputable manufactures build their feed to compensate for the calcium and phosphorus in the roughage. Since phosphorus can be cheap or expensive according to how available it is, this is a good place to cut costs on cheapy feeds.

KINDA MAKES A BODY WONDER, DON'T IT?

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SINCE 1870

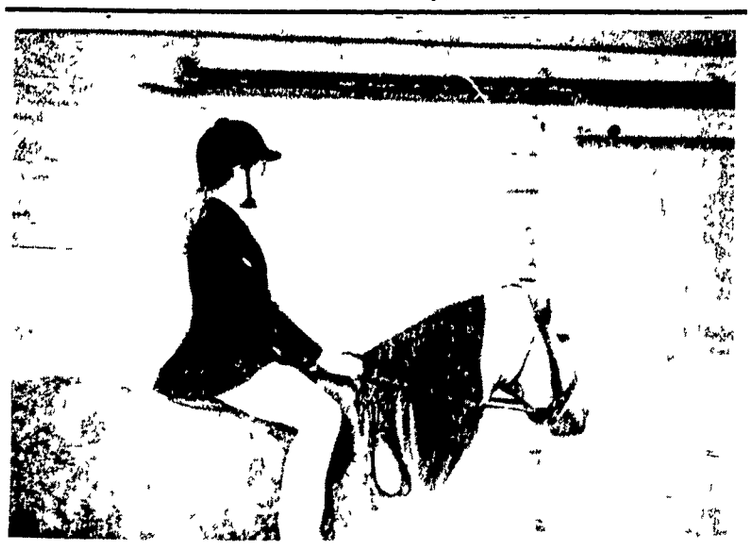
ELMER M. SHREINER
Trading as Good's Feed Mill
Specializing in DAIRY & HOG FEEDS
New Providence, Pa.
Phone 786-2500

(Continued From Page 14)

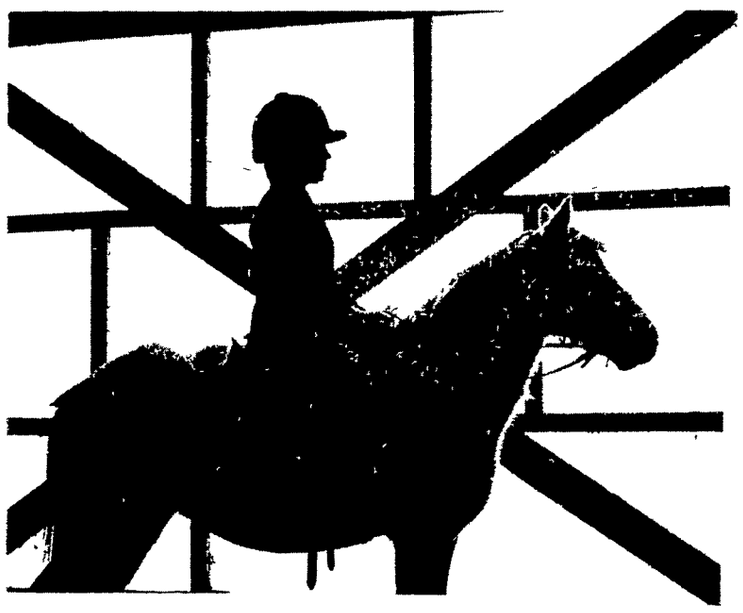
for desert war horses. Many other breeds, like the Thoroughbred, have Arabian ancestors somewhere in their history.

Arabians are noted for their natural beauty and endurance. They aren't especially fast at short distances but, as Mrs. Christensen says, "there's no horse that can keep up with an Arabian in a 100-mile endurance race."

"I like Arabians because they're intelligent and affectionate," Mrs. Christensen noted. "The mares, especially, are affectionate. They're easy to train, too, because they're very sensitive. And they live longer than most other horses."



Astride Rose Araby, Karen Christensen polishes her riding techniques under the watchful eye of her mother. Rose is an Arabian mare and the dam to the junior champion filly at the Keystone International Livestock Exposition.



Eight-year-old Eric Christensen, riding his favorite Welsh pony, stands silouhetted against the translucent door of the exercise barn on the Christensen farm.

Many Arabians are still going strong approaching 30, and it's not at all unusual for a 25-year-old mare to have a colt.

Arabians are good show horses, Mrs. Chirstensen feels, because of their naturally high tail carriage and their floating walk. False hair, heavy shoes and other show-ring gimmicks are disallowed in the Arabian competition.

Gentleness is another show ring asset. Arabian breed organizations are among the few that allow children to show stallions.

"Silver Meadows Farm" is the official name for the family's home on Elizabethtown Road. It's also the name of the hunt seat riding academy run by mrs. Christensen.

The academy now has ten students. Two of Mrs. Christensen's most adept pupils are her own children, 12-year-old Karen and 8-year-old Eric.

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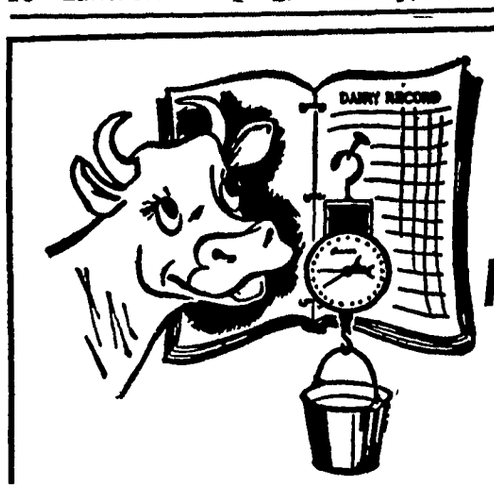


LANCASTER COUNTY DHIA MONTHLY REPORT

A Registered Holstein cow owned by James A. Newcomer, Mt. Joy R.D. 1, completed the highest 305 day lactation. Lucy produced 25,541 pounds of milk, 891 pounds of butterfat with a 3.5 percent test. Second high lactation was completed by a Registered Holstein cow owned by Alvin J. Stoltzfus, Elverson R.D. 1. Fanny produced 21,341 pounds of milk, 871 pounds of butterfat with a 4.1 percent test in 305 days.

The herd of John P. Lapp, Leola R.D. 1, had the highest daily butterfat average. This herd of 35.9 Registered and Grade Holstein cows averaged 54.6 pounds of milk, 2.00 pounds of butterfat with a 3.7 percent test. The herd of Aaron E. Beiler, Paradise R.D. 1, placed second. This herd of 21.6 Registered and Grade Holstein cows averaged 47.4 pounds of milk, 1.92 pounds of butterfat with a 4.1 percent test.

FIRST 305 DAYS OF LACTATION WITH 640 OR MORE POUNDS OF BUTTERFAT.

Owner - Name	Breed	Age	Days	Milk	Test	Fat
James A. Newcomer						
Lucy	RH	4-11	305	25,541	3.5	891
Tanya	RH	6-3	305	24,560	3.4	837
Alvin J. Stoltzfus						
Fanny	RH	5-8	305	21,341	4.1	871
Star	RH	4-4	292	17,713	3.6	641
Earl L. Hershey						
114	RH	7-0	303	18,163	4.7	859
Emanuel S Smucker						
Margie	RH	4-2	305	24,034	3.5	850
Jean	GrH	7-8	305	20,381	3.6	726
Red Rose Research Center						
Bonnie	RH	10-2	305	24,976	3.4	846
Della	RH	6-2	305	19,832	3.7	732
Roy H. & Ruth H. Book						
Alma	RH	6-5	305	22,532	3.8	846
Marcy	RH	6-3	301	16,595	4.6	763
I. Tony	RH	12-5	305	14,949	4.3	648
J. Z Nolt						
Donna	RH	6-8	305	19,503	4.3	842
Rose	RH	5-1	305	20,845	3.3	682
Lloyd Wolf						
Nettie	RH	2-4	305	17,236	4.9	841
Posch	RH	9-0	305	17,627	4.7	835
Elaine	RH	3-3	305	15,647	4.2	662
Harriet	RH	4-0	304	13,505	4.8	646
Henry B. Leaman						
Iva	GrH	4-4	305	19,883	4.2	833
Calvin D. Beiler						
Lucille	RH	5-2	305	20,650	4.0	831
Eva	RH	5-7	305	19,853	3.5	695
Rufus G. Martin						
5	RH	4-9	305	20,175	4.1	831
26	RH	5-10	305	23,149	3.5	804
Raymond W. Burkholder						
14	RH	5-3	305	20,210	4.1	830
Samuel I. Esh						
Jane	RH	4-4	305	22,332	3.7	823
Bertha	RH	6-8	305	20,949	3.7	785
Harry G. Kreider						
Crissy	RH	5-4	305	17,525	4.7	819
Ben S. Stoltzfus						
Audrey	RH	4-5	305	18,649	4.4	818
Sandra	RH	5-11	305	19,229	3.7	718
July	RH	9-6	305	16,142	4.4	711
Petunia	RH	5-3	305	19,435	3.5	683
John M. Harnish						
Pearl 2	RH	5-3	305	20,265	4.0	817
Eileen	RH	4-2	305	17,929	4.3	763
Holly	RH	4-1	273	15,246	4.7	714
Ann 2	RH	4-1	305	15,234	4.6	705
Virginia	RH	4-10	305	18,600	3.8	703
Lou	RH	3-6	305	19,879	3.5	698
Gladys	RH	2-6	305	18,168	3.7	673
John K. Stoltzfus						
Twinkle	RH	4-2	305	19,596	4.1	812
Dale E. Hiestand						
Sara	RH	6-2	305	19,609	4.1	810
Jem	RH	3-3	305	21,097	3.8	802
Irene	RH	6-4	302	15,323	4.7	727
Irma	RH	9-2	270	15,436	4.5	698
Quelletal Farm						
Sue 98	RH	5-5	305	18,183	4.4	806
Ezra M. Martin						
Felicia	RH	5-1	305	20,708	3.8	779
Nedra	RH	4-0	305	15,842	4.5	706
Clyde W. Martin						
Apex	RH	6-4	305	19,946	3.9	774
Brenda	RH	5-10	305	16,650	4.2	707
Albert Breneman						
Eleanor	RH	7-11	305	22,410	3.4	770
Gwen	RH	5-8	305	18,889	3.7	694
R. Edwin Harnish						
Melody	RH	4-11	305	20,032	3.8	763
Moses N. Good						
Spotty	RH	4-3	291	22,703	3.4	762
Parke H. Ranck						
Gail	RH	5-9	305	18,663	4.1	759
Molly	RH	5-0	305	13,784	5.3	728
Rachel	RH	6-2	295	18,038	3.9	703
Violet	RH	3-1	305	16,539	4.2	695
Beverly	RH	6-1	305	16,924	4.1	694
John & H. Farrington						
Star	RH	3-3	305	18,606	4.1	757
Snow	RH	3-1	305	17,453	3.7	654
Furry H. Frey						
Dufair	RH	4-9	305	17,404	4.3	757
John E. Kreider						
Rosa	RH	5-1	300	20,928	3.6	756
Nelson E. Martin						
Dolores	RH	4-4	305	17,933	4.2	756
Annie	RH	4-3	305	17,555	3.7	655
Robert W. Ulrich & Son						
Karen	RJ	7-6	305	14,098	5.4	756
Bitsy	GrJ	5-3	305	14,042	4.6	648
J. Eby Hershey						
Rach An	RH	8-11	305	17,234	4.4	755
Harry L. Troop						
Bunny	RH	5-2	305	16,982	4.4	751
B. F. & Mary Eshelman						
Sue 71	RH	3-2	305	19,965	3.8	750
Dan S. Stoltzfus						
Joan	RH	6-1	305	18,600	4.0	749
John L. Lanids						
Olie 70	RH	5-4	305	20,536	3.6	748
Peggy 28	GrH	9-2	305	24,009	2.7	648
Robert M. Mylin						
Dike	RH	6-3	305	16,581	4.5	748
John R. Sauder						
Fern	GrH	4-8	305	16,577	4.5	747
Josie	RH	5-5	280	17,561	4.0	702
Amy	RH	5-5	305	17,072	4.0	683
Aaron K. Stoltzfus						
Sylvia	RH	4-9	305	20,210	3.7	746
Aaron S. Glick & Sons						
54	RH	7-0	305	19,325	3.8	743
48	GrH	6-0	305	18,824	3.5	655
Melvin M. Groff						
Cammy	GrH	4-4	302	17,292	4.3	743
John S. Yost						
Alicia	RH	2-3	305	18,085	4.1	741
Jackie	RH	6-1	305	19,694	3.5	698
Rachel	RH	3-2	305	13,794	4.9	681
Dina	RH	2-1	305	13,899	4.7	660
Samuel F. Long						
Doodle	RH	3-2	305	17,043	4.3	738
Melvin Nissley						
14	GrH	3-8	305	17,483	4.2	735
33	RH	5-2	276	18,150	3.6	647
John B. Groff						
Jane	RH	5-5	305	15,856	4.6	730
Jody	RH	5-0	305	17,896	4.0	721
John U. Stoltzfus						
Whirl	RH	6-9	277	16,131	4.5	727
J. Floyd Kreider						
Fairy	GrH	5-0	305	17,446	4.2	726
John S. Wenger						
Marth 28	RH	3-11	305	18,048	4.0	724
J. Clayton Charles						
Rose	GrH	6-2	304	19,236	3.8	723
Henry E. Kettering						
Arlene	RH	7-4	305	20,035	3.6	721
Cinda	RH	5-8	305	17,312	4.2	720
Tess	RH	10-1	305	17,340	4.0	689
Melody	RH	3-9	305	17,205	3.8	655
Nancy	RH	4-2	305	18,604	3.5	648
Pure Spring Farm						
Enviabl	RH	4-7	305	24,154	3.0	719
Edgefield Farms						
Judy	RH	7-4	283	15,215	4.7	718
Raymond & Louise Witmer						
Grace	RG	4-10	305	14,432	5.0	717
Balrina	RG	6-8	305	13,057	5.2	676
Allen Lee Stoltzfus						
Sissy	RH	3-5	305	20,424	3.5	716
Eleanor	RH	4-4	305	19,215	3.4	650
Sam & Allen Kreider						
Hattie	GrH	3-11	305	17,257	4.1	716
Hester	GrH	7-10	292	15,039	4.3	652
Benjamin E. Kauffman						
Betty	GrH	5-5	305	16,012	4.5	714
Daisy	GrH	6-1	305	20,160	3.4	693
Kreider & Trimble						
5	GrH	5-0	305	16,808	4.2	710
Donald S. Eby						
Dixie D	RH	5-1	305	16,147	4.4	710
Agnes	RH	5-11	305	15,336	4.5	697
Jonas B. Lantz						
Mae	RH	4-6	305	19,936	3.6	709
Paul N. Brubaker						
93	RH	3-10	305	19,292	3.7	708
28	RH	6-8	305	16,621	4.0	657
86	RH	3-2	305	17,000	3.9	655
Amos M. Stoltzfus						
Anna	RH	9-10	305	17,907	4.0	708
Gail	RH	6-10	305	14,205	4.8	675
Nathan E. Stoltzfus						
Vicky	RH	6-10	305	20,457	3.5	707
Jane	RH	5-1	305	17,766	3.9	693
Albert E. Fry						
Dorette	RH	4-4	302	17,085	4.1	706
Crystal	RH	4-10	305	16,268	4.0	646
David W. Sweigart						
Max 17	RH	5-3	305	20,290	3.5	705
72	GrH	4-1	305	16,021	4.0	643
Harry S. Aungst						
Jody	RH	7-4	305	19,164	3.7	702
Jaye	RH	7-8	305	17,544	4.0	699
Abraham Shelly Jr.						
Buss	GrH	3-4	305	17,970	3.9	702
Topsy	GrH	6-1	305	18,329	3.6	660
Blackie	Grh	5-8	305	17,966	3.6	644

(Continued On Page 17)

Facts for Dairymen

by

N. Alan Bair
Assistant County Agricultural Agent

Cull Cows and Meat Inspection

All dairymen send some animals to "market" to salvage what they can from their cull dairy cows. The reasons for culling are many, ranging from low production, to breeding problems, to the cows that can go through any fence no matter how high or how strong.

Cows that have been sick or infected sometimes have to be disposed of also, and many times these are sent for slaughter. Sending sick cows to slaughter under Federal meat inspection may not only result in condemnation and loss of the carcass, but it may add additional losses for hauling, commission, etc.

Dr. S. B. Guss, Penn State Extension Veterinarian, suggests that before sending animals to slaughter which have been sick or recently sick, be sure to check with your vet. Animals which have fever when sent to slaughter are usually condemned. If antibiotics or other drugs have been used for treatment, be sure that the animal has been held long enough to eliminate danger of tissue residues. An ordinary dry cow dose of Vitamin A, D, E will usually produce a discolored area which may result in condemnation of the hind leg into which it was injected. Injection of such things is best done in the muscles of the neck in front of the withers. Meat inspectors will hold out or condemn all carcasses which show evidence of needle injection. This evidence usually initiates collection of tissue samples for drug residues.

Meat inspectors welcome and encourage calls from practicing veterinarians regarding cull animals sent to slaughter. The animals history may make the difference between condemnation and passage of the carcass. It may also be helpful to know exactly what abnormality is present in the carcass. It's a good way to check out diagnoses made.

Keeping Useful Dairy Records

The question is often asked, "How many records are needed for my dairy operation?" Some good advice in answer to this question would be to keep only records that will be used.

The type of records will depend on the ability and needs of the dairy operator, but to be of any value the record must be used in the operation of the business.

Minimum financial records are needed to meet legal requirements, but more detailed records can be very helpful in the management of a modern dairy operation.

The simplest, but often the most neglected records, are dates on which various events take place. Breeding, freshening, dry, and birth dates are only a few which are very important, and often forgotten if not recorded somewhere.

Production records on individual cows and the herd are recognized as a part of the Dairy Herd Improvement Association. The DHI, alternate AM-PM, and owner sampler plans also provide a place for permanently recording dates, pedigrees and health information for each animal in the herd.

You should decide what records you can use, and then record information that will give you the needed data. A production testing plan may best fill your needs for a systematic method of recording

DHIA MONTHLY REPORT

(Continued From Page 16)

Elam P. Bollinger						
Romaine	RH	7-1	274	17,697	3.9	699
Penny	RH	6-2	300	16,428	4.2	692
Paul S. Horning						
Jill	GrH	4-8	305	21,539	3.2	698
Red	GrH	4-0	305	19,168	3.5	678
E. Richard Bruckhart						
Rachel	RH	5-2	305	19,321	3.6	696
Robert & Richard Landis						
Florence	RH	6-6	305	19,124	3.6	695
Sally	RH	7-0	305	17,937	3.8	686
Aaron B. Lantz						
Lady	RH	12-7	305	18,091	3.8	695
Jane	RH	4-8	305	17,947	3.7	657
James G. Kreider						
Star 92	RH	6-7	305	17,337	4.0	695
Ellis D. Kreider						
Rose	RH	4-8	305	19,180	3.6	693
Joseph Eshleman						
Bess	GrH	3-7	305	18,941	3.6	690
Cindy	GrH	3-2	304	14,391	4.5	648
Kenneth A. Skiles						
Fudge	GrH	7-0	305	17,200	4.0	688
Kathy	RH	10-0	305	18,384	3.7	682
Edna	GrH	6-1	286	16,668	4.1	681
Tab	GrH	5-2	305	19,923	3.3	658
Aaron E. Beiler						
Polo	RH	5-0	304	16,327	4.2	688
Ivan Z. Martin						
Mattie	RH	2-3	305	19,328	3.5	685
Penny	RH	3-1	305	17,019	3.8	655
James F. Myer						
Bonnie	RH	5-10	305	20,623	3.3	682
Wilmer G. Kraybill						
Nora	RH	8-2	305	19,579	3.5	682
Dr. Paul S. Schantz						
Rae	GrH	4-6	294	19,716	3.4	680
Sunny Craft Farm						
Saralee	RH	2-5	305	15,835	4.3	678
J. Wilmer Conrad						
Julie	RH	10-0	305	15,515	4.4	678
Jay C. Garber						
Beauty	RH	7-4	305	19,295	3.5	677
Andrew G. Miller						
Doreen	RH	2-2	305	15,485	4.4	677
J. Earl Horst						
Irene	RH	3-11	305	22,158	3.0	673
John M. Stoltzfus Jr.						
Barbie	GrH	6-1	305	17,903	3.8	673
John N. Shirk						
Belinda	RH	6-1	305	14,789	4.6	673
LeRoy M. Oberholtzer						
Lorie 2	RH	3-8	280	16,951	4.0	671
Stephen M. Petersheim						
Marie	GrH	7-2	305	16,632	4.0	670
Isaac S. Beiler						
Holly	RH	4-8	305	17,592	3.8	668
Hiram S. Aungst						
Ribbon	RH	3-4	305	18,015	3.7	667
William H. Douts						
Patsy	RH	3-1	305	17,391	3.8	667
G.M. Weaver						
37	RH	3-10	305	17,442	3.8	663
Samuel M. Martin Jr.						
Beauty	RH	6-10	276	17,304	3.8	662
Arthur D. Wenger						
Rachel	RH	3-2	305	17,437	3.8	661
David K. Stoltzfus						
Brenda	GrH	4-4	270	17,132	3.9	661
J. Mowery Frey						
Becca	RH	9-3	305	17,037	3.9	661
Charles Lefever						
Becky	RH	8-2	305	16,214	4.1	661
James L. High						
Tina	RH	5-11	305	14,632	4.5	660
Harold M. Shenk						
Silver	RH	4-8	287	15,458	4.3	657
Willis M. Martin						
Marvel	RH	4-1	305	18,594	3.5	651
Gerald N. Erb						
Moose 58	GrH	4-5	305	15,021	4.3	650
Lloyd E. Miller						
Carol	RH	5-2	305	16,769	3.9	649
Jacob S. Stoltzfus						
Ann	RH	6-7	303	19,395	3.3	648
J. Wade Groff						
Lady	RH	4-11	305	16,638	3.9	647
Willis S. Nolt						
Renee	RH	6-6	305	19,868	3.3	646
Robert C. Groff						
Fianna	RH	5-4	305	17,955	3.6	645
Noah Kreider & Sons						
54	GrH		305	15,355	4.2	645
Samuel M. Augsburger						
Barb	RH	3-6	297	17,439	3.7	642
J. Mowery Frey Jr.						
Mona L	RH	4-3	305	19,189	3.3	641
Masonic Homes Farms						
M Goodyr	RA	4-8	305	17,638	3.6	640
Roy C. Neff						
Janet	GrH	6-3	301	15,004	4.3	640

HIGH DAILY BUTTERFAT AVERAGES

Name	Breed	Days On Test	No. Cows	% Cow Days In Milk	Milk Lbs.	% Test	Fat Lbs.
John P. Lapp	R&GrH	28	35.9	98.5	54.6	3.7	2.00
Aaron E. Beiler	R&GrH	33	21.6	90.3	47.4	4.1	1.92
Curtis E. Akers	R&GrH	30	55.1	90.1	48.4	3.8	1.86
S. R. Shellenberger	R&GrH	25	64.9	82.0	42.4	4.2	1.78
Allen Lee Stoltzfus	RH	35	35.0	90.0	43.8	4.1	1.78
Titus B. Stoner	R&GrH	34	35.0	86.2	50.9	3.5	1.76
Roy H. & Ruth H. Book	RH	28	41.0	86.0	43.2	4.0	1.72
Lloyd Wolf	R&GrH	30	57.4	82.8	42.6	4.0	1.71
John S. Yost	RH	33	36.7	89.9	39.8	4.2	1.69
Abner K. Glick	R&GrH	30	31.5	91.3	45.7	3.7	1.68
Calvin D. Beiler	RH	31	52.0	90.1	41.5	4.0	1.64
Ben S. Stoltzfus	R&GrH	33	43.3	89.7	40.9	4.0	1.64
James W. Bowman	R&GrH	33	35.4	86.5	43.2	3.8	1.64
Clyde W. Martin	R&GrH	29	84.5	81.3	40.9	4.0	1.63
Harry Zimmerman Jr.	RH	35	35.8	94.2	42.8	3.8	1.63

Pesticide Project Gets PSU Help

Scientists with the Agricultural Experiment Station at The Pennsylvania State University are active in regional projects studying pesticide residues in or on raw agricultural products.

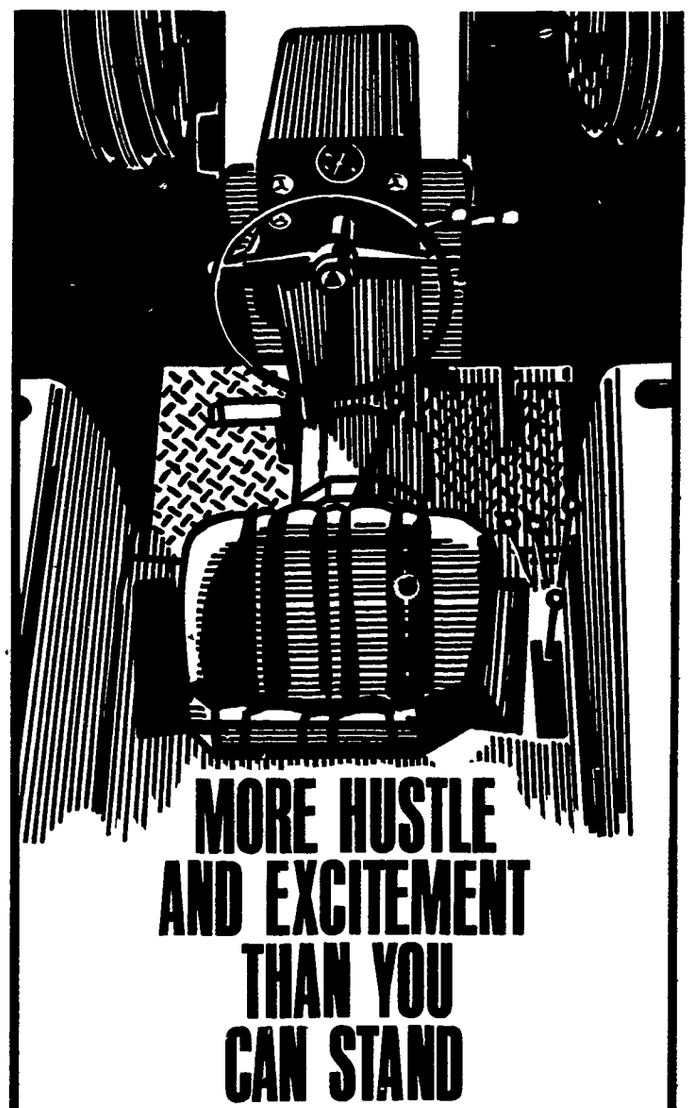
The regional scientists represent six land-grant universities and the U.S. Department of Agriculture and are organized into the Technical Committee of Research Project NE-36. The group has published two bulletins entitled "Pesticide Residue Investigations on Raw Agricultural Commodities." The first bulletin was issued in May of 1963 and the second in June of 1968. A third bulletin is underway.

Newly elected chairman of NE-36 is Dr. David A. Kurtz of the Pesticides Research Laboratory at Penn State. Dr. Kurtz will serve as chairman for one year, filling the unexpired term of the previous chairman.

In addition to Penn State, the NE-36 group includes scientists with the land-grant universities in New York, New Jersey, Maryland, Vermont, Delaware, and the Agricultural Research Service of the U.S. Department of Agriculture.

The NE-36 bulletins have summarized pesticide uses in the region as well as the disappearance of pesticide residues on locally grown fruits, vegetables, and other commodities.

Penn State Agricultural Experiment Station scientists have been active with the project since it was organized in 1956. Dr. Donald E. H. Frear, retired director of the Pesticides *Research Laboratory, was one of the early leaders of the project* and was an editor of the first bulletin.



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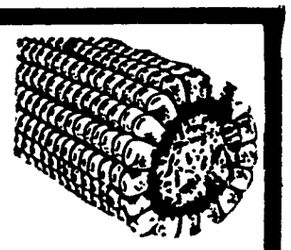

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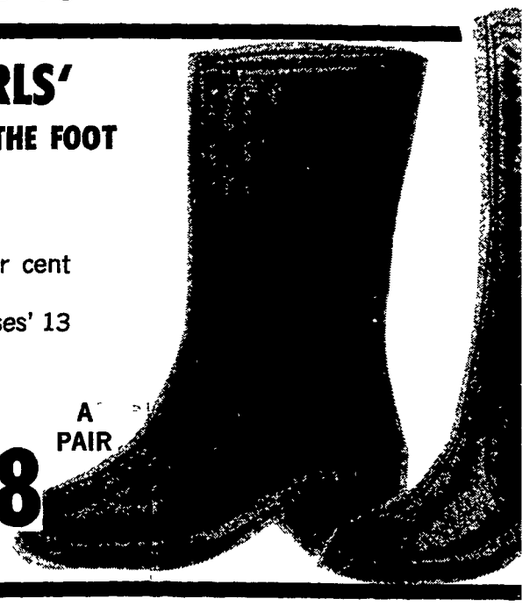

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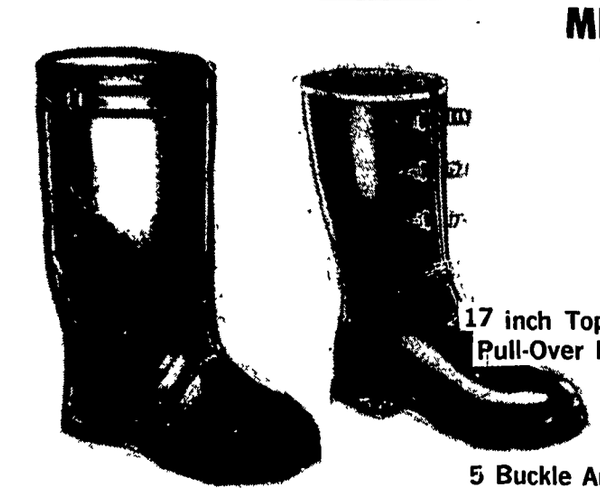

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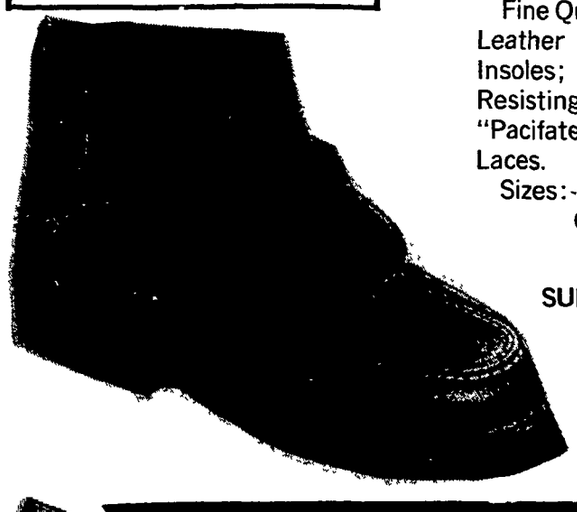

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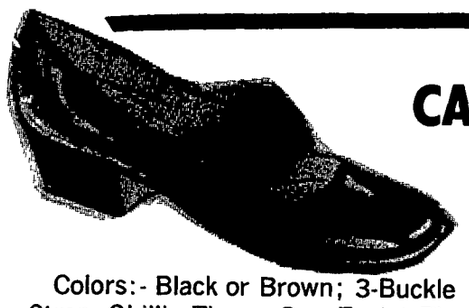

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Study Shows Rural, Town Youths Have Different Attitudes

Contrary to popular opinion, rural and urban society have not become a "melted pot," sociologists at The Pennsylvania State University report. Studies over a 23 year period show that, if anything, differences among rural-urban attitudes are stronger now than in previous years.

The studies analyzed high school sophomores in 1947, 1960, and 1970. Directing the current analysis were Dr. Fern K. Willits, Dr. Robert C. Bealer, and Dr. Donald M. Crider of the department of agricultural economics and rural sociology at Penn State.

While the young people expressed more permissive ideas in 1970 than 10 and 23 years earlier, there are presently wider ranges in attitudes between persons from farms, rural nonfarm areas, and towns than in previous years.

The results, the sociologists affirm, show the need to continue to recognize distinctions between rural and urban ideas and behavior in working with people.

The high school students came from identical geographical areas of the state in 1947, 1960, and 1970. Questions concerned church attendance, divorce, drinking, smoking, card playing, Sunday movies, Sabbath labor, idling in town, staying out late, failure in school, use of money, and use of cosmetics.

The young people were classified according to farm residence, open country nonfarm, and town residence. Changes toward increased permissiveness were generally greatest for town residents and least for persons on farms. This was obvious for the 1960 and 1970 period when changes were most rapid.

Of the 12 items surveyed, only attitudes toward tobacco and failure in school remained as firm in 1970 as they had been in 1947. Publicity linking smoking to lung cancer was considered responsible for objections to smoking. Russia's launching of the first Sputnik, taken as a sign of inferior U. S. technology and education, was believed to produce a firm objection to permissiveness regarding failure in school.

The 1947 testing included sophomores in 74 rural Pennsylvania high schools. Young persons answering the survey included 2,601 teenagers in 1947, nearly 4,000 in 1960, and over 5,000 in 1970.

In 1960 and 1970 most of the school districts had been consolidated and were serving areas in addition to these initially in 1947. While all sophomores in these schools completed the questionnaires, only those living in townships and boroughs served by the 1947 schools were included in the comparative analysis.

Christmas Program Activities Slated

The Lancaster County Extension Service will hold its annual Christmas Program on Tuesday, November 28 at the Farm and Home Center.

The following activities have been planned for this year's program, which is open to the public:

10:30 a.m. - 12:00 Noon—Demonstrations will be given on: "Candle Making;" "Holiday Foods;" "Gift Wrapping;" and "Selecting Toys for Christmas."

1:30 p.m.—"Fire Prevention for the Holidays" will be presented by Captain Ernest Woerner from the Lancaster City Fire Department.

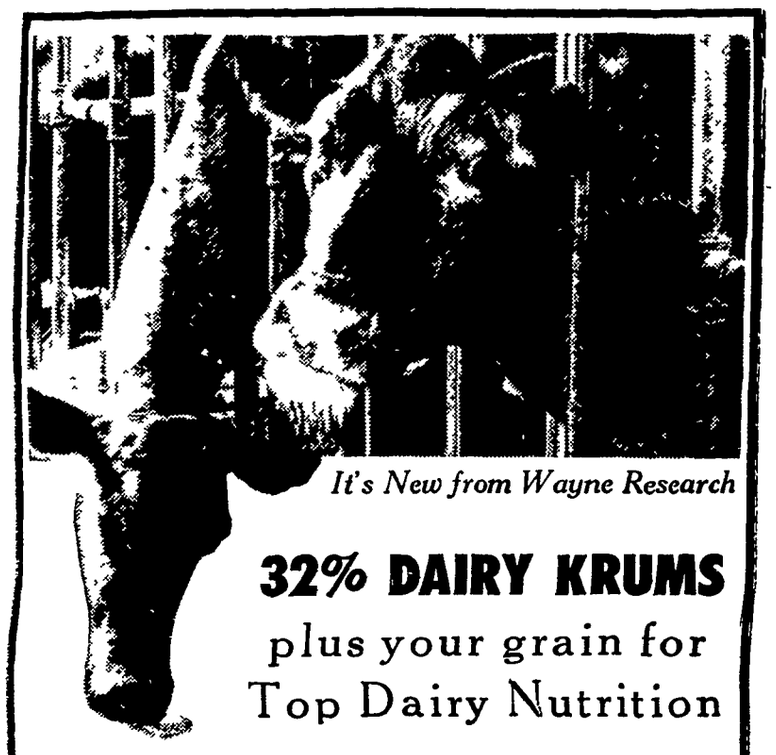
2:00 p.m.—"How To Do It For Christmas," a demonstration on making holiday decorations will be presented by Mrs. Edward S. Bloom, Wilmington, Delaware.

6:00 p.m. - 9:00 p.m.—Viewing of exhibits and bazaar tables of decorations, gifts, and foods for the holidays prepared by Farm Women Societies. These exhibits will be displayed in the Extension Training Center.

7:30 p.m.—"How To Do It For Christmas"—Mrs. Bloom will repeat her demonstration for those persons who cannot attend in the afternoon.

Invent or Discover

Invention is putting materials together so as to make something which did not exist before. Discovery usually means finding or uncovering something which has been there but has never before been observed.



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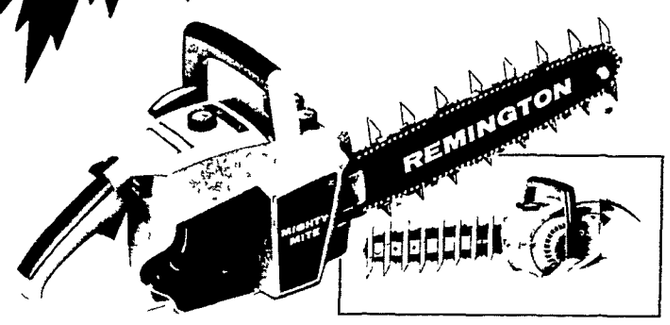

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Chester County 4-H Livestock Judging Team

Three Chester County 4-H members and their leader have been preparing for the National 4-H Livestock Judging Contest being held in Chicago today (November 25). Esther Howe, Elverson; Howard Stoltzfus, Glenmoore, and James Wylie, Nottingham, earned the right to represent Pennsylvania at the National contest when they placed first in the state at State 4-H Days in August. William Holloway, Chester County 4-H Beef Leader, is the coach of the team and accompanied them to Chicago.

In Chicago, 4-H members representing various states will be competing for National livestock judging awards. The 4-H'ers will have the opportunity to visit many places of interest including the International Livestock Exposition and the Natural Museum of History.

The 4-H Livestock Judging Contest consists of judging classes of beef, sheep, and swine. Each class consists of four animals. The members must place the class and give oral reasons on their placings. Members place the class based on the animal's desirability for satisfying the consumer's demand for meat while being most profitable to the farmer and butcher.

Since being named the state team, the 4-H'ers have represented Pennsylvania at various regional contests. At the Eastern U.S. 4-H Livestock Judging Contest the team placed fourth. Esther had the third highest score in the contest.

At the Keystone International Livestock Exposition in Harrisburg, the team placed seventh. Howard was high individual in swine judging while receiving the sixth highest overall score. Esther was tenth high individual in the contest.

The team placed tenth at the Eastern National Livestock Show at Timonium, with Howard having the fourth highest score in beef judging.

James Wylie, Nottingham; Esther Howe, Elverson, and Howard Stoltzfus, Glenmoore, members of the Pennsylvania 4-H Livestock Judging Team, are discussing the points of a modern steer with Coach William Holloway, West Chester. The team is representing Pennsylvania at the National 4-H Livestock Judging contest in Chicago.

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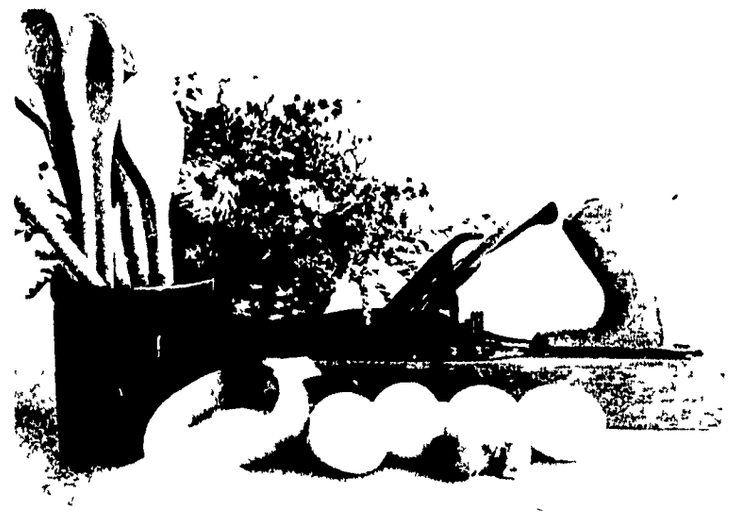

Flower Show . . .

The Harvest and The Holly

There was something for everyone at the Town and Country Garden Club's 1972 Standard Flower Show held last weekend at the Farm and Home Center.

"The Harvest and the Holly" was the theme, and exhibitors used a great variety of plant material to create unusual, artistic arrangements in keeping with the programs promise of a kaleidoscope of beauty. The show featured the "colors of harvest, the joys of Christmas and the excitement of the New Year."

The Educational Award was given to an exhibit on the making of honey, prepared by 4-H members under the supervision of Arnold G. Lueck, associate county agent. Silver awards for educational exhibits were won by Mrs. Richard Sellers for a display on holiday wreaths and by the Conservation Committee for their display, "Hospitality for the Birds."

The Sweepstakes Award went to Mrs. William Ulrich for accumulating the most points in artistic and horticultural categories. Other top honors went to: Mrs. Jay Oberholtzer, Award of Distinction; Mrs. Curtis Amidon, Award of Merit; Mrs. William Ulrich, Arboreal Award; Mr and Mrs. S.A. Shoemaker, appreciation and Mrs. James Falk, Special Award.

Staging award went to Mrs. Charles Hanlon and Mrs. William Adamire and special recognition award went to Mrs. Charles Hanlon.

An important part of the show was the junior flower show by the Seedlings, which won the Junior Flower Show Award. Membership in "Seedlings" is for children from first through the ninth grade.

Three junior achievement awards were given: artistic, Robert Heisley; horticulture, Julie Spencer; educational, "Along the Nature Trail."

There were 25 categories for adult competition and 13 in the junior division.

Co-chairmen for the show were Mrs. Gordon Barr and Mrs. Richard Tomlinson.

Judges were Mrs. Frank P. Fonsielle, Mrs. Walter M. Kilgore, Mrs. Harry D. Daughtery, Mrs. Richard L. Schenck, Mrs. James W. Parish, Mrs. Elmer Warner, Mrs. John E. Romig, Mrs. A.C. Troup, Mrs. F.M. Weaver, Mrs. Kenneth E. Waters, Mrs. Russell G. Williams, Mrs. Paul E. Behler, Mrs. J. Thomas Carman, Mrs. A. Douglas Thompson and Mrs. R.F. Patton.

The show was the sixth for the Town and Country Garden Club since its affilitation with the National Council of State Garden Clubs.Twice the club has received purple rosettes for its shows, the highest award in the state. The Club has also won the Governor's Trophy, a Silver Bowl award for having the most and best in the state for all club activities.

Officers of the club are Mrs. Lloyd Hawk, president; Mrs. John Eicholtz, vice-president; Mrs. Richard Neiman, treasurer; Mrs. Leonard Wolf, corresponding secretary and Mrs. W.O. Ulrich, Parliamentarian.

The club meets at Salem United Church of Christ in Rohrerstown on the first Tuesday of the month at 7:30.

Mrs. Jay R. Oberholtzer won the Award of Distinction with this entry in the "Hi-Ho, The Harvest" category. The display had to consist of all dried material to be eligible for this award. The accompanying caption read: "God said, 'Let the seed produce fruit after its kind, and it was so.' Genesis."

Flower show co-chairmen Mrs. Gordon Barr (left) and Mrs. Richard Tomlinson Stand by their entry in the show. They won first prize in the "Lights Aglow" division.

"The First Thanksgiving" is interpreted by Carol Landis who won second place. This exhibit is part of the Seedlings division, open to children from first through ninth grade.

The Educational Award was given to this exhibit detailing the steps in making honey, prepared by Lancaster County 4-H Clubs.

Farm Women Calendar

Thursday, November 30
Farm Women Society 11, home of Mrs. Herman Shirk.

Saturday, December 2
1:30 p.m. — Farm Women Society 1 meeting, Quincy Home, Lititz.

High and Low

California is unique geographically—the highest and lowest points in the conterminous United States are both in that state and only 86 miles apart. Mt. Whitney is 14,495 feet above sea level; Death Valley is 282 feet below sea level.

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Fix-It Tip

Following up last week's tips on sandpapers, there is more than type to be picked.

Choose the correct grade. Basically, the grades are fine, medium and coarse, plus extra fine and extra coarse.

Now and then you may find sandpaper with the older-style number markings. The larger the number, the finer the grit. For example, 2/0 is finer than 1 and 5/0 is finer than 2/0.

While power sanding is O.K. for most jobs, final sanding is best done by hand. Wrap the paper around a block made from a scrap piece of wood to keep the sanding even. If you do not use a block, you must keep your hand perfectly flat or your finished work will have streaks.

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Ladies, Have You Heard?

By Doris Thomas,
Extension Home Economist

Doris Thomas

How To Choose Apples

When you go food shopping these brisk autumn days, you're likely to see a microcosm of fall at the fruit counter. Glorious shades of red, gold, and green-bright, tempting colors that mark the seasonal abundance of fresh apples.

For satisfaction follow these suggestions for choosing apples. For good eating as fresh fruit, the commonly available varieties are Delicious, McIntosh, Stayman, Golden Delicious, Jonathan, and Winesap. For making pies and applesauce, use tart or slightly acid varieties such as Gravenstein, Grimes Golden, Jonathan, and Newtown.

For baking, the firmer-fleshed varieties-Rome Beauty, Northern Spy, Rhode Island Greening, Winesap, and York Imperial-are widely used.

Lood for firm, crisp, well-colored apples. Flavor varies in apples and depends on the stage of maturity at the time the fruit is picked. Apples must be mature when picked to have a good flavor, texture, and storing ability. Immature apples lack color and are usually poor in flavor. They may have a shriveled appearance after being held in storage.

Avoid overripe apples (indicated by a yielding to slight pressure on the skin and soft, mealy flesh) and apples affected by freeze (indicated by internal breakdown and bruised areas). Scald on apples (irregular shaped tan or brown areas) may not seriously affect the eating quality of the apple.

Try fresh apples in APPLE MEATBALLS, a pleasing surprise as main course fare:

1 lb. ground beef
1 cup grated fresh apple
1 cup dry bread crumbs
1 cup tomato juice
2 eggs, beaten
1 teaspoon salt
¼ teaspoon pepper

TO PREPARE: Mix together meat, grated apple, bread crumbs, egg and seasonings. Form into 1½ inch balls and place in a casserole. Cover with cup of tomato juice. Bake 1 hour at 375 degrees. It may be necessary to add more tomato juice before baking is completed. VARIATION: Substitute cream of mushroom soup, thinned with milk, for tomato juice.

xxx

About Holiday Stain Removal Hints

At holiday dinners the tablecloth sometimes seems doomed. But if stains are treated while still fresh, generally they can be removed. Here are some suggested methods for treating the most common holiday-type stains:

Fruit stains including cranberries: Soak the area in warm water and enzyme pre-soak, then launder. If necessary and color and fabric permit, launder again using chlorine bleach.

Gravy or milk: Use an enzyme pre-soak with cool water or make a paste of detergent and water and work that into the stain. Then launder. Should the stain remain, use a dry-cleaning solvent.

Wine or soft drinks: Soak with an oxygen bleach in the hottest water safe for the fabric, then launder. If necessary, launder again with a chlorine bleach.

Coffee or tea: Soak in hot water with enzyme pre-soak or oxygen bleach. Then launder, and, if the stain is not removed, launder again using chlorine bleach if the color and fabric of the tablecloth permit.

Candle wax: Scrape off as much as possible, then place the stain between paper towels and press with a warm iron. Next place the stain face downward on paper towels and sponge the back with dry cleaning solvent. Let dry, then launder. If the stain remains, launder again with an oxygen bleach. If the spot is still not removed and color and fabric type permit, launder finally with a chlorine bleach.

A few general hints are to (1) test any stain remover on a corner of fabric first, (2) do not add chlorine bleach to an enzyme pre-soak product, and (3) treat spots from the back of the fabric. Place the spot downward on some paper towels so that the stain will come off the fabric instead of going through it.

Thanks to Noah

American authors, songwriters and motion picture producers can thank Noah Webster for initiating copyright laws that protected the rights of authors. Webster crusaded for a federal copyright law, enacted in 1790, after unscrupulous publishers reprinted his "Blue-Back Speller" without payment or credit.

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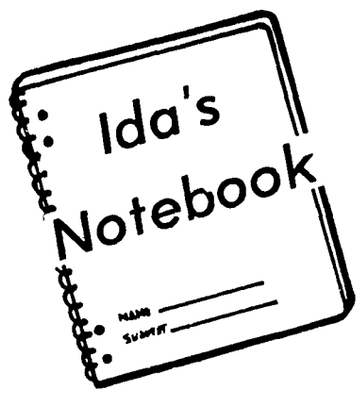

Ida Risser

This old house of ours must have seen quite a variety of Thanksgivings. Some joyous and with a groaning table loaded with food and surrounded by big families. Then too, there must have been years when sorrow was a guest at the table and food was not plentiful.

Our house has stood through depressions and lean years. It has had a succession of families living here The Weidler family built this house in 1813 after living for a number of years in a log cabin in our meadow. When we dug post holes for new fences, after the June flood tore everything out, we found some of the original foundations.

Different generations of this family lived here for about a hundred years. In following years a number of tenant families lived here. Later still, it was used simply as a summer home. There were many years when it stood empty and desolate.

Oh, it wasn't completely unoccupied I'm told that at night tramps or bums or whatever you want to call them would find shelter before our fireplace. There was also a time when it was used to strip tobacco. The tobacco was dampened in the house and stripped in the living room, according to a former occupant. No wonder my husband and father worked so long and hard to sand the floors.

When we decided to move here almost 25 years ago, the house had no electricity, no running water, or central heat. Over the years we have added them one by one. Our six babies grew up strong and healthy in bedrooms that averaged 40 degrees in winter and I survived carrying water from the well to wash diapers for the first child.

And now sitting here in this comfortable, warm, well-lighted room, listening to the electrical appliances click on and off, I can realize we've come a long way and there is much to be thankful for in 1972.

In the Kitchen

SUCCULENT SWISS STEAK

2 lbs. round steak (1-inch thick)
salt
pepper
2 tsps. prepared mustard
3 large tomatoes
1 large onion

Cut steak into 6 portions. Trim off excess fat from beef and brown fat in a skillet. Discard fried fat and brown the steak in the drippings. Sprinkle beef with salt and pepper. Spread mustard on the meat. Slice and arrange tomatoes and onions over the meat. Cover and simmer about 1 to 1½ hours, until tender, adding a little water if needed.

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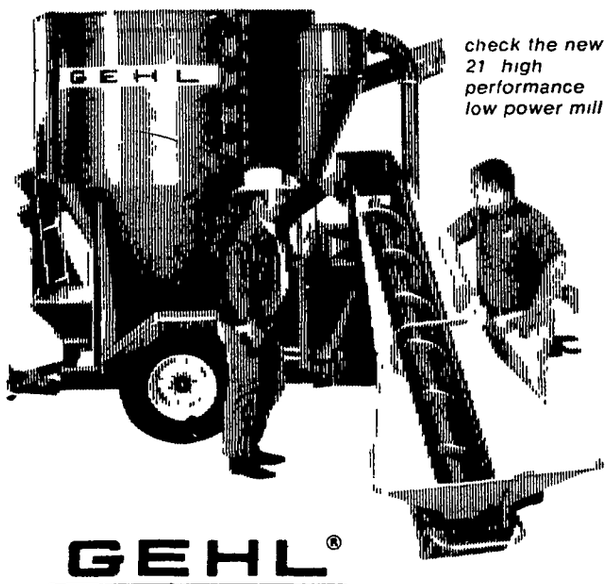

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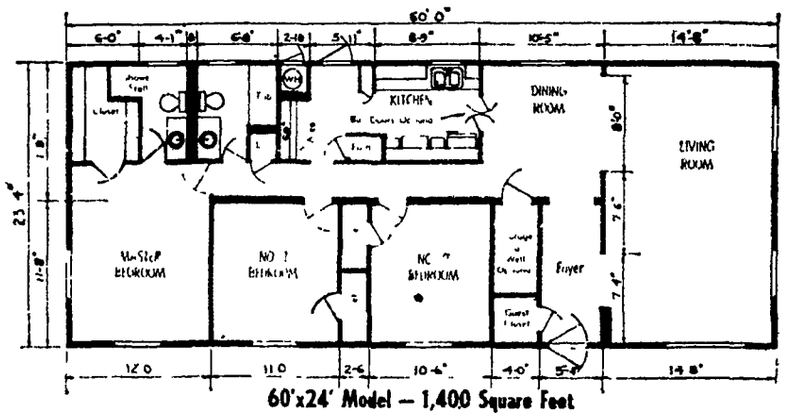

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Tips on Preparing Wild Game

Hunting wild game, large and small, once was a necessity. Today, however, it's more of an invigorating adventure. With hunting season here, it's also open season for game cookery.

People eating game for the first time usually try to compare it with beef, pork or other domestic meats, but June Wilke, Chester County Extension home economist, says you should remember that game has a distinctive flavor which for the most part, is not comparable with the meat of any other group of animals.

But you need more than recipes to fully enjoy eating game. It must come from the field to your kitchen in good condition. That means that every sportsman should know the proper way to clean, transport and store what he shoots.

The necessity for dressing game immediately after shooting depends, of course, on the weather. Hunters agree that game birds may be carried through the day without cleaning. If the temperature is warm and the birds are to be kept more than one day without ice or refrigeration, they should be drawn as soon as possible but leave the feathers on until reaching home.

Miss Wilke advise you to clean out the abdominal cavity of mammals the same day they are killed. Carefully remove splintered bones, pieces of feathers or fur and shot from shot wounds in order that you can cook an animal in good condition.

Loosely wrap fresh game birds and then store them in the coldest part of your refrigerator for two to three days before cooking. For best flavor, cooked game should be stored in a covered container and eaten within three to four days. Or you can freeze the birds, if they are waterfowl.

As you would do with poultry, you can roast, broil or fry tender birds. These birds have light-colored skin, and need to be will basted. Older birds, more solidly fleshed and fattier, require moist cooking—stewing or braising, They are also suitable for cooking in a pressure cooker.

If you prefer a mild rather than a game flavor, soak the bird in a salt or vinegar solution overnight in the refrigerator.

Fulton Grange Holds Thanksgiving Program

Fulton Grange 66 held its regular meeting November 13 at Oakryn with the Master, Richard Holloway, conducting the business meeting. A $5 donation was given to the Tuberculosis and Health Society of Lancaster County. It was announced that a public hearing on the Comprehensive Development Plan of Drumore, Fulton and Little Britain region of Lancaster County which was compiled by the Local Research Corporation will be held at Fulton Grange Hall December 13 at 7:30 p.m. The public is invited to attend.

Mrs. J. Stanley Stauffer Jr., Lecturer, presented the program. The Junior Grange presented the first part of the program. Miss Donna McCardell announced the program.

The following presented a playlet "The Operation": Tim Hanks and Misses Crissie McCardell, Mary Ellen Fisher, Karen Holloway and Donna McCardell. Sandra Galbreath led in "Old McDonald Had a Farm" with the Junior Grange singing it and the audience saying the sounds of the animals. A girls chorus accompanied by Glenn Hough sang "Which Way America", "Every Minute The Sun Goes In" and "ViVi L'Amour." Glenn Hough rendered a piano solo "Thanksgiving Melodies." The girls chorus sang "I Like To Teach The World To Sing."

Miss Donna Findley, Fulton Grange's Miss Solanco contestant, did a gymnastics routine. Reports of the Pennsylvania State Grange convention were given by Mr. and Mrs. Clifford Holloway Jr., Thomas Galbreath and Gyles Brown.

Mr. and Mrs. Edgar K. Brown served as judges for the Thanksgiving centerpieces and turkeys and prizes were awarded as follows: Centerpieces—Mrs. J. Stanley Stauffer Jr., first; Mrs. Gyles Brown, second. Turkeys—Richard Holloway, first; Mrs. David Knight, second.

The membership chairman, Miss Joyce Galbreath announced a contest between men and women which will end January 22. Losers will furnish a program.

Rev. William Drury, Teen Haven, will speak at the next meeting, November 27. Fulton Grange will present part of the program at Russellville Grange December 7. The ladies are to make plain or spiced pumpkin or apple pies and the men to take either a 10 ear exhibit or a single ear of corn for their Corn and Pie Night.

USDA Reverses Stand on Butter Standard Change

The U.S. Department of Agriculture has withdrawn its proposal to amend the U.S. grade standard for butter.

USDA's Agricultural Marketing Service proposed amending the standard to allow a very slight whey flavor in U.S. Grade A butter (USDA press release 3278-72). The proposal was published in the October 7, 1972, Federal Register and comments from interested persons were invited.

On the basis of comments received the USDA has decided to make a more complete study of the standard with the view to making more extensive revisions, if necessary, at a later date.

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Low Egg Prices in '73?

By A. Kermit Birth
Marketing Specialist,
Penn State

Is the egg industry starting to build up to another surplus situation before having an opportunity to recuperate losses from the unfavorable situation of the immediate past? Reduced slaughter of hens under federal inspection and increased hatch of chicks for laying flock replacements in September suggest a potential increase in the number of layers in the future.

Attempting to predict prices and trends in the industry has been a challenge. When reductions in the number of chicks hatched and pullets grown indicate price strength, producers tend to reduce sales of hens. Thus, more older hens stay in the nation's laying flock.

In 1972, through the week ending May 3 about 5.3 million more layers were slaughtered under federal inspection than a year earlier, as compared to about 3.7 percent fewer between May 10 and October 4. Thus, by October 4 only about 1.5 million more layers had been slaughtered than a year earlier. Hens killed to eradicate exotic Newcastle disease are not included in USDA slaughter information. However, the numbers do influence the data since these hens would have been slaughtered. The additional slaughter to date would not have been as much as the numbers actually killed, because of normal mortality and age of the layers.

Perhaps another reason slaughter under federal inspection has been declining relative to a year earlier is *holding of hens to offset the loss of layers killed due to exotic Newcastle disease on the west coast.*

Chicks hatched for laying flock replacements in September were about 3 percent above a year earlier, but the total hatch through September this year was down 10 percent. Layers on farms were 4 percent less than a year earlier. The reduced number of layers was offset in part by a 2 percent increase in the rate of lay.

The proportion of forced molt layers in the nation's laying flock has held about steady for four months—July through October—and ranged between 13.1 and 13.4 percent.

In November and December fewer pullet chicks should be available for housing as layers. Thus, if slaughter in the next month stays about the same as a year earlier, there should be a further reduction in the nation's laying flock. In May about 15 percent fewer chicks were hatched for laying flock replacements than a year earlier, as compared to 12 percent fewer in June and 6 percent in July.

Rate of lay continued to average above a year earlier. But it is questionable whether the rate of lay will continue at this higher level. Fewer pullets added to the nation's laying flock and more forced molt layers tend to reduce the rate of lay and are price-improving situations.

Adding weakness to egg prices are reduced military purchases and increased supplies of frozen and dried eggs. However, the market for liquid eggs—not frozen or dried—continues to expand. Weather, consumer purchases, and eggs used for hatching of chicks for both laying and meat could each add strength to egg prices.

The tendency to expand production when prices improve continues. Perhaps the question in the minds of most persons in the industry is "Will prices improve sufficiently to recoup most of the losses incurred during the low price period of late 1970, 71, and 72 before trending downward?" This depends on the industry. With today's rather highly concentrated industry and increased number of hens per production unit, the influence of a small number of producers can have a more significant impact on changes in production and prices than it did a decade or two ago.

One cannot overlook the often repeated statement, "It only takes a small change, 3-4 percent, in quantity of eggs available to consumers to change from a profitable to unprofitable situation for a good portion of the industry." Production in September was about 2.5 percent below a year earlier.

The increased forced molting of hens has helped offset part of the decrease in number of pullets grown. Prices are averaging above a year earlier. Egg prices should continue to strengthen. The situation next year depends on whether the industry continues to adjust production to market needs at profitable prices.

If the increase in hatch of chicks for laying flock replacements continues, as occurred in September and as indicated for October, without an offsetting increase in sale of hens, prices could weaken by February or March relative to the same period of 1972. Yes, the industry is finding it difficult to make the adjustments needed to get out of a low price situation.

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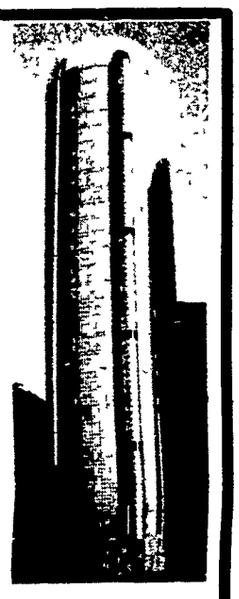
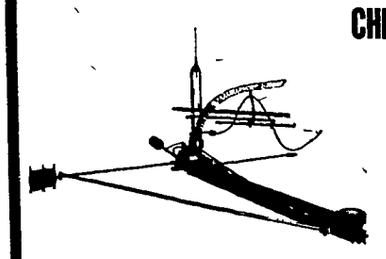
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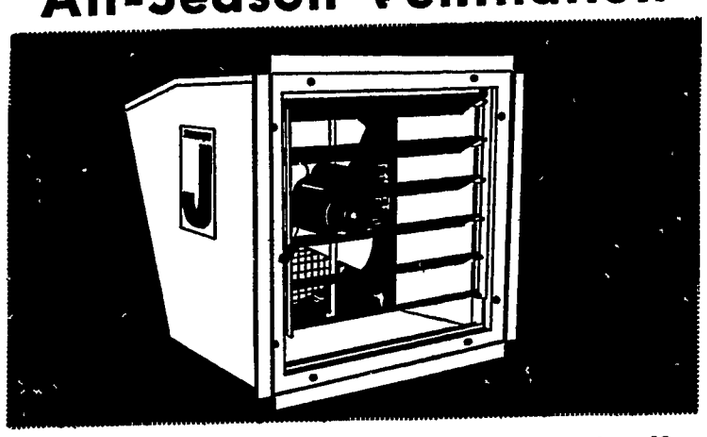
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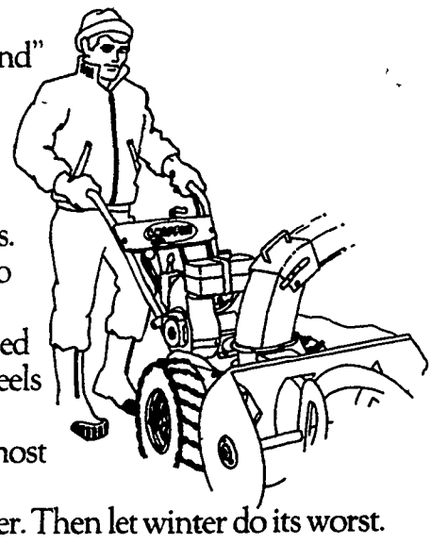
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Farm Women Societies

Society 3

Farm Women Society 3 met Saturday, November 18 at the home of Misses Mary and Ada Royer with devotions being led by Miss Mary Royer.

During roll call members responded by exhibiting an antique kitchen appliance. Among items shown were sad irons, wooden potato mashers, pie crimpers, ice cream dippers, tin teapot, pudding pan, tin muffin pan, bone handle knives and forks. Many were 100 or more years old.

The business meeting was conducted by Mrs. Clarence Stauffer, President. On November 29 the members will have an all-day sewing project to make bed pads for the County Society. Members will participate in the Holly Tour December 2.

Mrs. Martha Zimmerman and Mrs. Grace Myers were elected as delegates to the Pennsylvania State Farm Women Convention in Harrisburg in January. Mrs. Elizabeth Hess is alternate delegate.

A contribution of $500 was given the Ephrata Community Hospital building fund.

Mrs. William Eberly gave a report on the tour to Mystic Seaport, Conn., and Sturbridge Village, Mass., taken by the group recently. Mrs. Clarence and Mrs.Earl Stauffer reported on their visit to Kansas City, Mo., where Earl Stauffer received the Gold Key FFA Award.

The speaker for the meeting was Mrs. Quentin Eiseman, Ephrata. She spoke on "The Role of Women in the Christian Home."

The next meeting will be a Christmas party for members and children Saturday, December 16, at the Mt. Airy Fire Hall.

Society 18

Farm Women Society 18 met recently at the home of Mrs. Ken Brubaker, 820 Hillaire Rd., Lancaster. Mrs. Verna Noll had charge of the devotional period.

The president, Mrs. David Buckwalter, presided. Mrs. Joan Erb was installed by Mrs. John Hess as a new member, and the group was reminded of the Homemaker's Christmas meeting on Tuesday, November 28 at the Farm and Home Center.

Mrs. Brenda Hess demonstrated the making of flower arrangements and holiday decorations.

The next meeting will be at the home of Mrs. Lester Kreider, Buch Avenue.

Society 27

Farm Women Society 27 met for an evening meeting recently with Mrs. Witmer Sherer, Manheim RD4, serving as hostess and Mrs. Wayne Miller co-hostess.

The feature of the evening was a Scrapbook Program in which each member could share a talent of her own choosing. This type program was planned by the program committee as a disguise for a surprise for outgoing president, Mrs. Roy Sauder. "This is Your Life" was presented by Mrs. Bob Kauffman and Mrs. Albert Fry.

A brief history of Society 27 began the presentation, then began the life story of the retiring president. Slides, narration and snapshots were combined interestingly in recognition of the capable leadership for the past two years by Mrs. Sauder. She was also presented with several hand-crafted items from the group.

Mrs. Lester Hawthorne read scripture and gave a vocal solo with piano accompaniment as the prayer. She also led the Flag salute.

For roll call each member shared an experience in which a rule of safety was remembered too late.

The business meeting was conducted by Mrs. Sauder. By-laws were read at this meeting.

A report on the County Convention on November 4 was given by a past president of Society 27, Mrs. Arthur Wenger. Mrs. Robert Kauffman represented the Society as a candidate in the Farm Woman of the Year contest.

A motion was passed for the group to entertain Hillcrest guests at the Harrisburg State Hospital at a Christmas party on December 14 at 7:30 p.m. Food and social committees will be in charge of planning.

The next meeting will be held December 12 at the home of Mrs. Robert Fellenbaum, Mount Joy. Mrs. Wallace Heisy will present a demonstration on gift wrapping. Members are asked to bring gifts of bar soap for a Soap Train to be donated to a needy cause.

Society 28

Farm Women Society 28 heard an inspirational talk entitled "Remembering" at a recent meeting of the Society at the home of Mrs. Joseph Nolt, 20 Tennyson Drive. Mrs. Donald High assisted the hostess and Mrs. Richard Hess led the devotions.

Mrs. James Herr, Nottingham, will speak on "The Husband-Wife Relationship" at a Christmas banquet to be held December 16 at the Bird-in-Hand Motor Inn. The Garden Spotters will provide the music. Husbands will be guests at the banquet and each couple attending may invite another couple to attend. For reservations, contact Mrs. Richard Hess, Strasburg RD1.

Society 29

Farm Women Society 29 members met Monday evening, November 20, in the home of Mrs. Walter Mowrer, Columbia.

Three members demonstrated several ways to decorate for fall. Mrs. Elvin Brenneman made a pin oak leaf wreath; Mrs. Dale Heistand explained the construction of a pine cone wreath, and Mrs. Walter Mowrer showed different methods to finish ceramics.

Each member brought 29 cookies for a "Cookie Swap". Mrs. Mowrer gave each member a book with all the corresponding cookie recipes.

Mrs. Dale Hiestand conducted the business meeting. Group devotions were led by Mrs. Rodney Miller. Following the business meeting, refreshments were served by Mrs. Mowrer.

Society 29 will meet December 18 in the home of Mrs. Dale Hiestand for a Christmas party.

Society 31

Farm Women Society 31's meeting Monday evening observed Mrs. Edgar Diehl of Swiss Colony demonstrating the art of fondue making. The meeting was held at the home of Mrs. Curtis Akers.

Fondue began many years ago in Switzerland when women used leftover cheese by melting it down in a pot with wine. Bread dipped in it made the meal. Mrs. Diehl gave many tips from types of materials to use to when to clean the pot. Use aged cheese for fondue, stressed Mrs. Diehl.

The business meeting was conducted by Mrs.Paul Trimble, president. It was announced that Homemakers Day is November 28 at the Farm and Home Center. The Society will go on the Holly Trail Saturday, December 2.

The following committees were appointed for the coming year:

Ways and means, Mrs. William Ulrich, Mrs. Curtis Akers, Mrs. Mel Brandt, Mrs. Robert Groff, and Mrs. Robert Kreider.

Program, Mrs. Robert Clark, Mrs. James Groff, Mrs. Robert Kauffman, Mrs. Harold Blank, Mrs. Benjamin Wenger.

Social, Mrs. Murl Aument, Mrs. Harry Spayd, Mrs. Doanld Trimble, Mrs. Charles Witmer, and Mrs. Paul Trimble.

Sunshine, Mrs. James Kreider; Publicity, Mrs. Carlton Groff.

The next meeting will be held December 14 at the home of Mrs. James Kreider.

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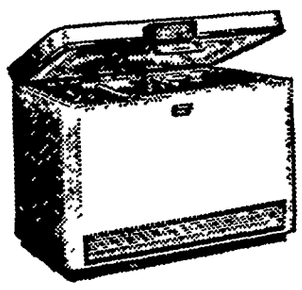
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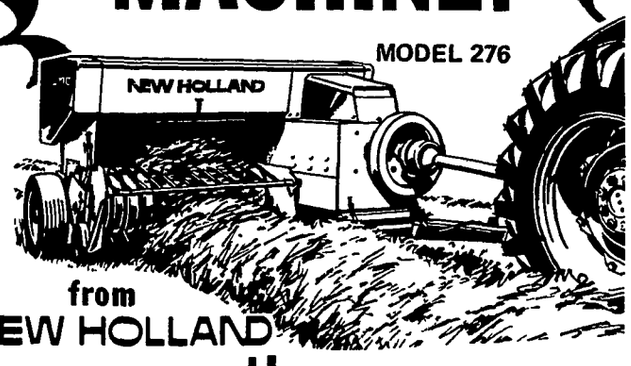

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NFU Picks R. G. Lewis

The election of Robert G. Lewis as National Secretary of the Farmers Union by the National Board of Directors was announced recently by President Tony Dechant.

Lewis has been manager and economic counsel of the Farmers Union Marketing Services Cooperative, a dairy marketing and bargaining association. In addition to the regular duties as National Secretary, Lewis' primary responsibilities in the Farmers Union will include international economic and trade policies, and dairy marketing.

Dechant noted that three international policy issues of vital concern to American farmers will reach critical stages in 1973:

1. Legislation to renew the Food for Peace Act (P.L. 480) which will expire Dec. 31, 1973;
2. Renegotiation of a new International Wheat Agreement will begin;
3. Legislation authorizing a new round of trade negotiations will be required.

Lewis will head the major effort being planned by the Farmers Union to get better farm price-strengthening and market-building provisions in these international programs,. Dechant said.

Lewis has a life-long association with the Farmers Union which began with his family in Wisconsin. He is former editor of the Farmers Union Washington Newsletter and other publications of the organization.

During the Kennedy Administration, he was vice president of the Commodity Credit Corporation and deputy administrator of the Agricultural Stabilization and Conservation Service in the U.S. Department of Agriculture. Before entering the Kennedy Administration, Lewis was administrative assistant to Senator William Proxmire of Wisconsin, and agricultural coordinator for Governor (now Senator) Gaylord Nelson of Wisconsin.

There was an error in the Herb Bread recipe run last week, so we are offering the corrected recipe to you for your use:

Herb Bread

½ cup sugar, plus 1 teaspoon
1 tablespoon salt
1-3 cup butter
2 cups boiling water
2 pkgs. dry yeast
2 eggs
¼ cup lukewarm water
2 tablespoons mixed herbs seasoning (can substitute)+
2 tablespoons chopped parsley
¼ cup chopped pimientos, *drained*
8 cups *unsifted flour*

In a large bowl dissolve ½ cup sugar, salt and butter in boiling water. Cool to lukewarm. In a one cup measure, put ¼ cup lukewarm water, the remaining one teaspoon sugar and the yeast, let yeast bubble until it fills the cup, then add to other mixture. Beat eggs and add, stir in seasoning, parsley and pimientos. Add four cups of flour, beat until smooth. Gradually mix in four remaining cups, beat till smooth. Knead well. Put in greased bowl, cover with wax paper, put in refrigerator for three hours. Remove from refrigerator. Cut in three parts. Rub hands with butter and knead till all air is removed, shape into three loaves, place in well greased pans. Cover lightly and let rise in a warm place 1½ hours. Bake for 15 minutes at 350 degrees for 30 minutes, the 300 degrees for 30 minutes. Cool in pans, do not cut for hours.

+Can substitute for herb seasoning 1½ teaspoon resemary, ¼ tsp. thyme, 1 tsp. savory, ½ tsp. sage and pinch of garlic salt.

Milk Production Down From 1971

October milk production dropped to 554,000,000 pounds, just slightly less than the preceding month but seven percent off the 1971 total and the lowest October in five years, according to a report this week from the Pennsylvania Crop Reporting Service.

The size of the state herd remained static—692,000—from September but this is 6,000 fewer than a year ago on the same date.

The per cow production was 800 pounds compared with 805 pounds a month earlier and 850 pounds in October, 1971. The national average during the same period was 784 pounds.

Pennsylvania is the fifth ranking state in milk production with dairy farmer receipts in 1971 reaching $464,000,000.

Pa. Tobacco Yields Worst Since 1945

Pennsylvania seedleaf tobacco growers anticipated the worst production figures in history even before the advent of tropical storm Agnes and other adverse weather that persisted throughout the growing season.

Production turned out to be worse than the most pessimistic estimates, according to the Pennsylvania Crop Reporting Service.

The production estimates as of November 1 are for 23,100,000 pounds, down 15 percent from last year which was the previous low record. The yield of only 1,400 pounds per acre was the worst since 1945. Only 16,500 acres were harvested.

Production of all types of tobacco in the U.S. made a slight recovery this year with a 1.5 percent increase to 1,733,000,000 pounds but is still nine percent less than in 1970. Pennsylvania is a distant seventh in tobacco production behind the six southern tobacco-belt states.

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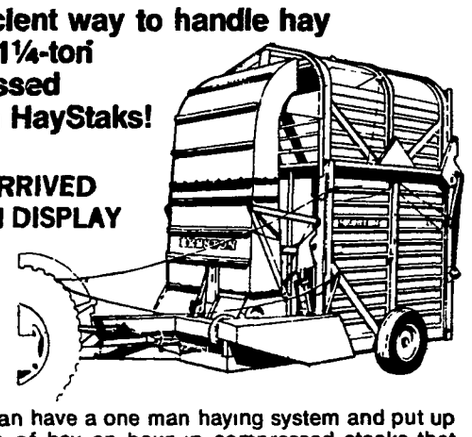

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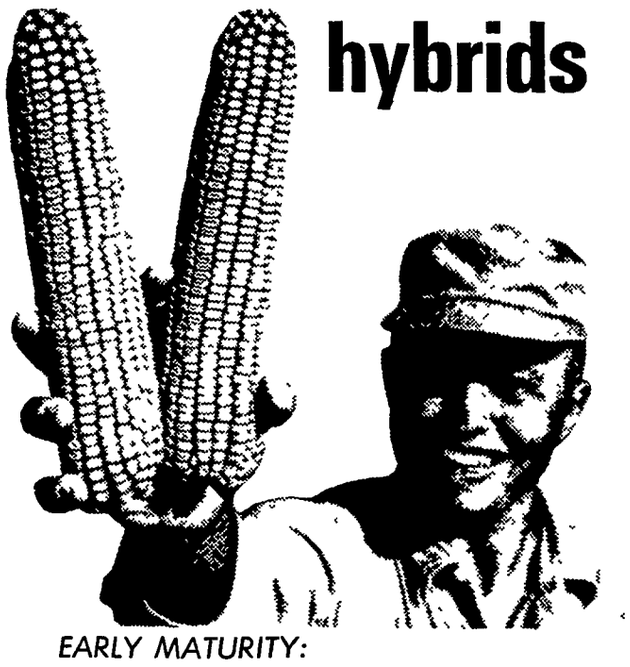

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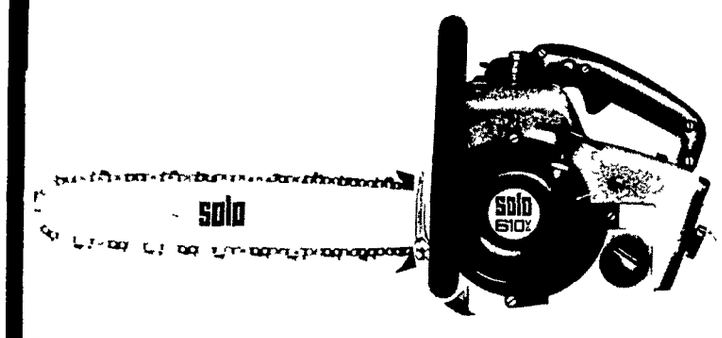

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Exports Said Crucial to Increased Farm Incomes

Increased demand abroad for food, livestock feed, and oilseeds is the key to higher farm income at home, Secretary of Agriculture Earl L. Butz told a recent two-day open session of the National Advisory Committee on Grains-Wheat, Feed Grains, and Soybeans-at the U.S. Department of Agriculture.

Pointing out that the average age of American farmers today is 51, the Secretary said: "The only way that we are going to man the farms of tomorrow with younger men is to make it profitable for them to be there. To do this, we must continue to strengthen farm income by relying on the world marketplace for its source."

Exports of farm products will pass the $10 billion mark-a record high- this fiscal year, Secretary Butz said. At the same time, he pointed out that net farm income will reach a new high of $18.8 billion this year Thus, the Department's farm programs should be planned to continue this trend by producing crops that are in demand at home and abroad.

"I hope that we avoid getting into a position where we can't sell a commodity overseas because we have a shortage of it," the Secretary added.

Recent moves by foreign countries to upgrade their people's diet have led to increased livestock production in those nations, and this is expanding world demand for feed grains, Carroll G. Brunthaver, Assistant Secretary of Agriculture and Chairman of the Advisory Committee, told the group. He cited figures showing the large increase in exports of feed grains and soybeans during the past two years and cautioned the group against being too conservative in assessing the continued growth of world markets for U.S. agricultural products.

"The risk in the year ahead is thinking too small in a world that is expanding its demand for food," the Assistant Secretary said, adding: "We are finding new markets for our farm products-and must continue to find them. But if we don't produce the crops, we can't sell them abroad."

Mr. Brunthaver said "The best thing that could happen to the U.S. soybean industry is to lock in the USSR and East European countries-which are considering expanding their livestock industries-by getting them used to using high quality U.S. soybean meal. We must increase soybean production in order to be able to do this."

Some members of the committee indicated satisfaction with the current market picture for feed grains and soybeans and generally expressed concern that the 1973 program be directed toward avoiding overproduction of these commodities and thus result in a depressing effect on farm prices. Consensus of the group was that the freedom for the farmer to make his own decisions should be retained, as provided by the Agricultural Act of 1970.

Feed grain program alternatives for 1973 were presented to the committee by Glenn Weir, Associate Administrator of USDA's Agricultural Stabilization and Conservation Service, who said: "Primarily, we want to be satisfied that we have the right mix between corn and soybeans as we approach this program."

The 30-member Advisory Committee, which represents a cross-section of farmers, farm organizations, dealers, and processors, met to consider various alternatives and to make recommendations for the 1973 feed grain program Program details will be announced later by the Secretary of Agriculture.

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SNOW TIRES 2 for $30

Sizes 6.00x13, 7.00x13 or 6.95x14 tubeless blackwall plus $1.61 to $1.95 Fed. Ex. Tax per tire and two old tires

Famous quality Sure-Grip IV built deep to bite deep!

A Pair Gives You The Traction You Need To Go In Ice-Mud-Snow

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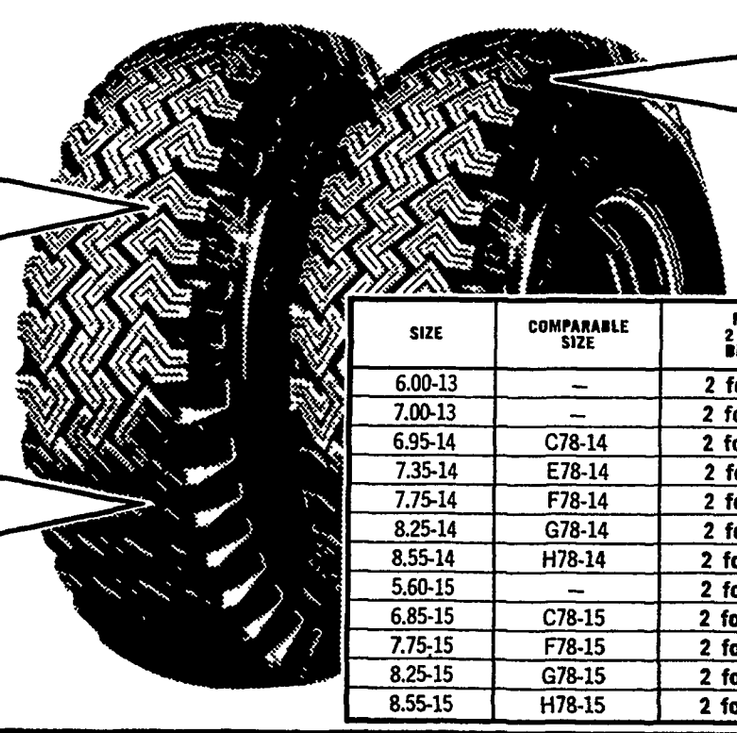

Strong 4-Ply Nylon Body Cord

SIZE	COMPARABLE SIZE	Price for 2 Tubeless Blackwalls	Plus F.E.T. Per Tire And Two Old Tires
6.00-13	—	2 for $30.00	$1.61
7.00-13	—	2 for $30.00	$1.95
6.95-14	C78-14	2 for $30.00	$1.90
7.35-14	E78-14	2 for $39.60	$2.00
7.75-14	F78-14	2 for $46.10	$2.12
8.25-14	G78-14	2 for $48.00	$2.29
8.55-14	H78-14	2 for $52.40	$2.46
5.60-15	—	2 for $31.90	$1.73
6.85-15	C78-15	2 for $35.80	$1.89
7.75-15	F78-15	2 for $47.10	$2.13
8.25-15	G78-15	2 for $49.10	$2.34
8.55-15	H78-15	2 for $53.20	$2.48

Pick-up, Panel, Van & Camper Tires for Go in Mud or Snow TRACTION SURE-GRIP

- Deep-biting Z-shaped tread that keeps you going in mud or snow
- Built with "Tufsyn" Rubber

$35.80 7.00 x 15 6-Ply tube-type blackwall, plus $3.26 Fed. Ex. Tax and old tire.

$40.50 7.50 x 16 6-Ply tube-type blackwall, plus $3.88 Fed. Ex. Tax and old tire.

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Manufactured by

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★ Public Sales Register ★

WED. NOV. 29 - Paul Z. Martin's Horse Sale at his new place of business, 2 miles east of Intercourse. Sale: Tack at 6 P.M. Horses at 7 P.M. Sharp, Standard Time. Horses Hitched at 12 Noon. Sale by Paul Z. Martin, Martin Auctioneers.

FRI. DEC. 1- 8 P.M. Public Auction of 100 head High Grade Holstein Dairy Cattle to be held in the dairy barn arena at the Aberdeen Sales Co. in Churchville, Harford Co., Md. located on Md. Rt. 22, 6 mi. east of Bel Air, Md. (via U.S. Rt. 1) and 6 mi. west of Aberdeen, Md. (via I-95 or U.S. Rt. 40) for A. P. Mickle of Havre de Grace, Md.

SAT. DEC. 2 - 12:00 Noon Vista Grande Farm Holstein Sale to be held at the Charles C. Myers' Black & White Farm just west of Lancaster, Pa. Take Rte. 283 west and exit at Florys Mill Road, just beyond the ABC Stud Barns. Turn left and then right under railroad bridge to farm. Sale by Alpheus and Joe Ruth, owners, Fleetwood, Pa. RD2, R. Austin Backus Inc. Sale Mgrs. and Auctioneers, Mexico, N. Y.

SAT. DEC. 2-1 P.M. Public Sale of the Lloyd Miller Dairy Herd and Milking Equipment located along Muddy Creek Road leading from Rte. 222 at Muddy Creek Church to Kramers Mill about ½ mile from Rte. 222, Lancaster County, Pa. Terms by Lloyd R. Miller, H. H. Leid, Auctioneer.

TUES. DEC. 5- 11 A.M. Sharp Machinery Sale to be held at the Mickle Farm located on Old Level Road. From Churchville, Md. take Glenville Road off Md. Rt. 155; go 2½ mi. on Glenville Road; take Old Level Road east 1 mi. to farm. Sale by A. P. Mickle, Havre de Grace, Md. Aberdeen Sales Co. sale Managers and Auctioneers, Aberdeen, Md.

WED. DEC. 6 - 10 A.M. Public Sale of Antiques and Household goods located South of Kirkwood off Rte. 472, east along Sproul Road. Sale by John K. Grebinger, Lloyd H. Kreider, Auctioneer.

THURS. DEC. 7- 12:30 Sharp P. B. Guernsey Sale at the Ass'n. Sales Pavilion, Lancaster, Pa. 85 Head. Sale Managed by Pa. Guernsey Breeders' Assn., Box 458, Camp Hill, Pa. and the Merryman Co., Sparks, Md.

SAT., DEC. 9- 11 A.M. Public Sale of Farm Machinery, Grain, Hay, Feeder Steers located on the farm southwest of Jonestown, Lebanon County. Turn south off first hard road on old Rt. 22 west of Jonestown. Located between old Route 22 and Water Works Road. Sale by Allen Moyer, Sr. Harry H. Bachman, Auctioneer.

SAT. DEC. 9- 12:30 P.M. Swine Dispersal to be held within the Sechrist Sales Co. Livestock Auction, located 5 mile south of Stewartstown on Rt. 24, near New Park in York Co., Pa. Sale by Richard L. Wilson, owner, Stewartstown, RD No. 1, Pa. Sechrist Sales Co., Sales Managers, Robert L. Sechrist, Auctioneer.

SAT. DEC. 16-Implement Sale by Lloyd Miller located along Muddy Creek Road leading from Rte. 222 at Muddy Creek Church to Kramers Mill about ½ mile from Rte. 222, Lancaster County, Pa.

FRI. JAN. 5 - David H. Good Consignment Sale located ½ mile North of Rt. 23 on Maple Avenue in Leola. Watch for sale sign. Farm Implements, Horse Drawn Implements, new tools, etc. Frank and Paul Snyder and Robert Martin, Auctioneers.

SAT. JAN. 13- Public Sale of farm equpment, shop tools and household goods located 1 mile East of Hinkletown off Rt. 322 Lancaster Co., Pa. Sale by Phares H. Zimmerman; LeRoy S. Horst and Paul W. Horst, Auctioneers.

SAT. JAN. 27- Public Sale of Farm Equipment, livestock and household goods located 1 block south of Terre Hill along Rte. 897 next to Terre Hill Silo Company in East Earl Twp., Lancaster County, Pa. Sale by Rufus Nolt; LeRoy S. Horst and Nevin Martin, Auctioneers.

THURS. FEB. 1- Public Sale of farm equipment and household goods located 1 mile East of Terre Hill off Rt. 625 along side of Union Grove Elementary School in East Earl Twp., Lancaster Co., Pa. Sale by Reuben Zimmerman; LeRoy S. Horst, Auctioneer.

FREE!

Your sale can be listed in our Sales Register without charge. Just mail details to Lancaster Farming, P. O. Box 266 Lititz, Pa. 17543

SPECIAL SALE

Friday, Dec. 8, 1972

7:30 P.M.

500 HEAD 500

Charolais, Angus and Hereford Calves and Yearling steers and heifers.

No paint marks or hip tags on any of these cattle. All cattle weighed on sale day.

Beef breeds and some Holstein steers. Sorted in uniform lots.

Regular Sale Date every Monday 2 P.M.

For Further Information Contact
J. FRANCIS TINSMAN

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or 703-777-3521

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WOOD SHAVINGS & PEANUT HULLS

PEANUT HULLS NOW AVAILABLE.

CALL 299-3541

SWINE DISPERSAL

100 HEAD of COMMERCIAL BROOD SOWS

SATURDAY, DEC. 9, 1972
at 12:30 P.M.

Sale to be held within the Sechrist Sales Co. Livestock Auction, located 5 miles south of Stewartstown on Rt. 24, near New Park in York Co., Pa.

145 Head Swine Herd 145 Head

100 head of crossbred sows of Yorkshire, Hampshire, Chester White, and Duroc breeding. Herd consists of approx. 15 head of sows with litters by their side day of sale. Approx. 65 head of sows that are bred to farrow soon after sale time and approx. 20 head of sows open and ready for breeding. 3 head of mature boars that are proven herd sires. 42 head of feeder shoats approx. 45 to 50 lbs.

This herd will be blood tested prior to sale and be eligible for interstate shipment. Sows will also be vaccinated against Leptospirosis and Erysipelas. Don't miss this sale for good replacement sows and breeding stock.

Owner selling in order to remodel and enlarge his hog facilities.

Terms: cash or approved check.

Richard L. Wilson,
owner
Stewartstown, Pa. R.D. 1

Sechrist Sales Co., sales managers
Robert L. Sechrist, auctioneer

Not responsible for accidents

VISTA GRANDE FARM

HOLSTEIN SALE

SATURDAY, DECEMBER 2

Lancaster, Pa.

Sale held at the Charles C. Myer's Black & White Farm just west of Lancaster, Pa. Take Rte. 283 west and exit at Florys Mill Road, Just beyond the ABC Stud Barns. Turn left and then right under railroad bridge to farm.

70 REGISTERED HOLSTEINS
(58 Milking Age - 12 Heifer Calves)

All tested for interstate shipment, Exam for preg. & Mastitis.
PRODUCTION SELLING!!
2 with 713 and 707 fat.
6 with 610 to 687 fat.
14 from 502 to 587-lbs fat.
12 from 400 to 488-lbs. fat (Many at 2 yrs.)
5 from 318 to 396 fat (2 yrs.)
18 on test with 1st calf.
CLASSIFICATION — Six sell at "VG", 2 at 87 pts. - 23 "GP", 14 at 82 and 83 pts. - 5 "G".

DAUGHTERS OF FAMOUS SIRES SELLING!!
1 by Irvington Pride Admiral - 12 by Vista Grande Haven Wallie - 8 by Greenwood Ivan 14 by Vista Grande Haven Model - 6 by Meadow Springs Piertetje Haven - 2 by Skokie Golden Coronet - Haborcrest Happy Crusader and others.

MANY WERE fresh in the base period and are bred back to calve in next year's base period.

Alpheus Ruth and his son Joe, have been breeding cattle for many years. The foundation was a line-bred Ormsby, the old "Bobbie" cow who proved a most prolific reproducer and today almost all the herd traces at least once to her. This sale provides a special opportunity to purchase line-bred "Dunloggins" with great potential. 4 "EX" cows came out of the last sale for their new owners.

MAKE YOUR PLANS NOW TO ATTEND
AND BUY ON DEC. 2!!

Sale starts 12:00 Noon
Lunch Available Catalogs
Under Cover

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ALPHEUS & JOE RUTH
Owners,
Fleetwood, Pa. RD2

•MORE MILK • MORE MEAT
• MORE PROFIT
WITH
MADISON SILOS

• Feed high-quality, nutritious, corn and grass silage all year for more milk, more meat and more profit
• Low original cost
• Low upkeep cost
• More than 60,000 Madison Silos in use

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Lancaster 393-3906

Carl L. Shirk
Lebanon 867-3741

Sollenberger Farm Supply
Centerport, Pa.
Ph. 215-926-7671

Coops Using More Borrowed Capital

Farmer marketing and supply cooperatives are relying less on member investments and more on borrowed funds to meet their growing capital needs, states a U.S. Department of Agriculture (USDA) report released this week.

This noticeable departure from traditional financing occurred between 1962 and 1970, according to a financial profile compiled and published by USDA's Farmer Cooperative Service. Borrowed capital during this period increased at an average annual rate in excess of 16 percent, while equity capital rose less than three percent.

At the close of fiscal 1970, the capital structure of the 7,289 cooperatives studied looked like this:

— Equity capital of $3.9 billion represented less than 47 percent of total assets, compared with more than 57 percent in 1962.

— Borrowed capital of $2.8 billion was about a third of total assets, compared with less than a fourth in 1962.

An increasing proportion of the borrowed capital is coming from banks for cooperatives. These banks are part of the farmer-owned and operated farm credit system. In 1970, banks for cooperatives were providing 64 percent of cooperatives' total borrowed funds, compared with 50 percent in 1962.

The changing financial profile of farmer cooperatives has been decisively influenced by the actions of the 100 largest cooperatives, the report indicates. A separate section analyzing these largest organizations shows the top 100 account for about half of the total volume and capital requirements of all cooperatives.

Traditional revolving fund financing is now believed inadequate to provide enough capital for cooperatives to continue to grow and provide the additional services farmers need, according to the report. Only 49 of the 100 largest were still using the revolving fund method in 1970. Several modifications in using revolving funds have been made.

Major considerations in developing new financing plans, the report states involve:

— generating more permanent capital to replace or supplement traditional revolving types of capital;

— assuring equitable membership participation in financing; and

— maximizing financial leverage (substituting more borrowed capital for member or equity capital.

* * *

Russian Christians

The Russian ruler Vladimir introduced Christianity into his country. He became a Christian in 987 and shortly thereafter ordered all his subjects to become Christians.

PUBLIC SALE OF THE

LLOYD MILLER DAIRY HERD AND MILKING EQUIPMENT

SATURDAY, DEC. 2, 1972

Located along Muddy Creek Road leading from Route 222 at Muddy Creek Church to Kramers Mill about ½ mile from Rt. 222, Lancaster County, Pa.

Consisting of 35 head of Canadian and Wisconsin and other milk cows. This is a high producing herd with size and quality in various stages of production including some fresh and close springers. All cattle checked for pregnancy. Health charts on sale day. Also a pony, cart, harness and saddle. DeLaval 4 unit stainless steel milkers; DeLaval milker pump and pipe for 40 cows; 500 gal. stainless steel ESCO bulk tank; stainless steel milk buckets and strainers and wash tub; elec. water heater.

Sale at 1 P.M. Milking equipment will be sold first.

H. H. Leid, Auctioneer. Sensenig, Clerk.

Terms by **LLOYD R. MILLER**

Implement Sale Sat., Dec. 16.

PUBLIC SALE

FARM MACHINERY GRAIN

HAY FEEDER STEERS

SATURDAY, DECEMBER 9, 1972

11:00 A.M.

Located on the farm southwest of Jonestown, Lebanon County. Turn south off first hard road on old Route 22 west of Jonestown. Located between old Route 22 and Water Works Road.

10 head of feeder steers weighing approx. 800 pounds

350 INT. TRACTOR WITH TORQUE CONVERTER

FARMALL H TRACTOR

NEW IDEA NO. 323 CORN PICKER - SLIGHTLY USED

2 Little Giant gravity bins, Oliver 14" 2 bottom plow, 611 harvester with 641, 621 and 631 attachment heads. JD No. 1 crusher, manure loader with bucket and blade, Woods Bros. 6' combine, Mayrath 20' grain auger, Century crop sprayer on wheels, Int. fertilizer spreader, rubber tired wagon with sideboards, NI 3 bar side rake, NI 4 bar side rake, 24' Smoker elevator, 16' rubber tired wagon, JD 13x7 disc grain drill, Oliver sickle bar mower, Cobey manure spreader, 3 section harrow, JD corn sheller, hammermill, manure sled, peg tooth harrow, Ford 14-80 PTO baler and NH No. 22 belt blower with 30' pipe.

Bag wagon, shovels, 36' aluminum ext. ladder, forks, large barn hinges, iron trough, poultry equipment, 3 fence chargers, 2 hole corn sheller, endless belt, 75 locust posts, cultivator, Flinchbaugh unloading unit, 5 & 6 ton jacks, fence supplies, saws, tools, Stewart cow clipper, 2 false front ends with sideboards, Homelite 101 chain saw, metal troughs, 55 gal. drums, gasoline tank, block and tackle, blow torch, hillside hitch and many more farm related items.

15 ton straw, 22 ton mixed hay, 30 ton ear corn and 500 bu. barley.

All equipment in very good shape.

Farm is sold, everything goes.

Conditions by: Allen Moyer, Sr.

Harry H. Bachman - Auctioneer

Ebersole and Moyer - Clerks

Lunch stand by Fredericksburg Church of the Brethren

PUBLIC AUCTION

100 HEAD HIGH GRADE HOLSTEIN DAIRY CATTLE

Sale to be held in the dairy barn arena at the Aberdeen Sales Co. in Churchville, Harford Co., Md. located on Md. Rt. 22, 6 mi. east of Bel Air, Md. (via U.S. Rt. 1) and 6 mi. west of Aberdeen, Md. (via I-95 or U.S. Rt. 40) on

FRIDAY, DECEMBER 1, 1972

8 P.M. Sharp!

This sale features the entire herd of A. P. Mickle of Havre de Grace, Md. who has sold his farm. The herd consists of 60 head of milking cows in various stages of lactation. Sixteen cows were fresh within the last 60 days; 14 are close springers; balance is in full flow of milk and bred back. The cows have been examined for pregnancy. This is a good home-raised herd of top quality Holstein cows. Mr. Mickle selected only the best pure bred bulls for use in his breeding program. Very few cows have calved more than 3 times. All animals show quality, size and are well uddered.

We will also sell 20 head of top open Holstein heifers from the Mickle herd which are ready to breed. Heifers average between 800 and 950 lbs.

We will sell another consignment of fresh and close springing heifers.

All cattle are T. B. Accredited; Certified Bangs Free; tested within 30 days of sale for out of state shipment.

MACHINERY SALE

TUESDAY DECEMBER 5, 1972

11 A.M. Sharp

Sale to be held at the Mickle Farm located on Old Level Road. From Churchville, Md., take Glenville Road off Md. Rt. 155; go 2½ mi. on Glenville Road; take Old Level Road east 1 Mi. to farm. From Darlington Road, take Old Level Road west 2½ mi. to farm. SIGNS WILL BE POSTED. DAIRY EQUIPMENT: Universal 400 gal. vac. bulk tank; Universal dumping station-50' glass line; 6 Surge milkers; automatic tank washer; dbl. wash vat; Rudd 52 gal. water heater; Surge vac. pump.

FEED: 1 Silo 12' x 40' 2-3 full corn silege; 1 Silo 12' x 30'¾ full corn silege; approx. 2000 bu. new corn.

MACHINERY: Int'l No. 504 diesel tractor; Int'l. No. 656 diesel tractor; J. D. No. 50 tractor; No. 861 Ford tractor; J. D. No. 1010 tractor; Case No. 970 diesel tractor w-cab 100 hrs.; 1950 Chevrolet 2 ton truck; Int'l. 4 bottom 16" plow; No. 411 Super Chief; J.D.2 bottom 14" plow; J. D. kilifer disc; J. D. 8' disc; J. D. 14' disc; J. D. self-propelled combine-corn head; Case 10' chisel plow; Massey Ferguson 10' disc on rubber; J. D. 15 hoe drill; J. D. 2 row mounted corn planter; Case 4 row no-till planter; J. D. cultivators; 3 section spring tooth harrow; 3 section spike tooth harrow; Brillion cultipacker; J. D. blower-50' pipe; Clark 200 gal. sprayer on rubber; New Holland No. 55 rake; New Holland No. 461 9' heavy duty hay bine; 2 J. D. No. 6 choppers with both heads; J. D. No. 138 chopper; Massey Ferguson combine 8' cut PTO; Ford 1 row corn picker; New Holland chuck wagon; J. D. 7' mower; Ford post hole digger; Int'l. 32' elevator; Ford Loader; 2 grain wagons; 2 New Idea spreaders; 1 wagon w-hay bed; 2 flat wagons; grass seeder PTO; wood saw and many more small farm tools.

ABERDEEN SALES CO.
Sale Managers & Auctioneers,
P. O. Box 371
Aberdeen, Md. 21001
Phone: 734-6050

OWNER:
A. P. MICKLE
Havre de Grace, Md.
FARM MANAGER:
CARL WOOD
Havre de Grace, Md.
Phone: 734-6612

ATTENTION!! KEEP THESE TWO DATES IN MIND
Both sales are worth attending.
Not responsible for accidents on sale date.
Lunch served: Ladies Hopewell United Methodist Church

ANNOUNCING

NEW POLICY AT LANCASTER STOCK YARDS

STOCKER AND FEEDER AUCTION SALE

Second Friday Each Month

Next Sale Dec. 8, 1972 at 1:00 P.M.

ALL GRADES, BREEDS, WEIGHTS
LOAD LOTS—SMALL LOTS

LANCASTER STOCK YARDS

Lancaster, Pa. Ph. 717-394-2611

HOME OF QUALITY MACHINERY

RUBBER TIRED LOADERS

Hough payloader (small)
2-Melrose 600 Bobcat skid loader
1-Melrose 444 Bobcat skid loader
3-Case 1537 Bobcats skid loader (less than 500 hours)
Michigan 175 payloader w cab (diesel)
3-Case 1530 uniloaders
A.C. TL 10 payloader w cab

GRINDER MIXERS

2-International
Gehl
Farmhand
New Massey Ferguson
2-New Helix
John Deere
Peco

BACKHOES

(3) Case 530 CK Backhoe & loader
Int. 3444 Backhoe & loader
J.D 500 Backhoe & loader
M.F 302 Backhoe & loader
Ford 3400 Backhoe & loader
Farmall 300 Backhoe loader
Case 210 Backhoe loader
Case 420 Backhoe loader
J.D 1010 Backhoe & loader

MANURE SPREADERS

New and Used Starline Tank Spreaders
2 - J.D. 33 P.T.O. drive
N.I. 200 Bushel P.T.O. drive
N.I. 165 Bushel P.T.O. drive
J.D. N. P.T.O. driven
J.D. H. ground drive
Badger P.T.O. driven
(5) Starline tank spreaders

CORNPICKERS

CRAWLERS

J.D. 350 loader
Case 310 F Dozer
J.D. 450 Loader
(3) A.C. HD6G Loader
Int. T340 Loader
J.D. 440 Loader
Int. TD6
Cat 955 K Loader
Cat D4 Dozer
TD 6 Dozer
TD9 Dozer
Case 750 loader w cab
(2) Case 310 loaders
CAT 933 F loader
J.D. 450 6 way dozer

FORKLIFTS

Case 580
Int. 5614
Ford 600

TRACTORS

FARMALL
4156 Diesel
856 Diesel widefront
2-806 Diesels, cabs
706 gas, large tires
656 Diesel, brand new
2-606 Diesels, power steering
504 Diesel, power steering
2-504 gas, trycycle or widefront
544, gas, utility (excellent)
2-200 w-fast hitch
2424 Diesel w-loader
560 Diesel, fast hitch
560 gas, fast hitch
2-460 gas, utility model
460 gas.
2-450 Diesels, power steering
400 gas, fast hitch
350 Diesel, fast hitch
Super MTA, excellent
2-Super M. live hydraulics
2-M with N.I. corn picker (superpicker)
WD9 Diesel standard
2-140 w-or without cultivators
130 with or without mower
2-Cub w-attachments
2-H and BN w-cultivator
656 Diesel Hydro Farmall widefront
706 Diesel with 3 point

MASSEY FERGUSON
180 Diesel multipower
175 Diesel multipower
165 gas multipower
65 gas utility
Pony, plow, snow blade

FORD
5000 Diesel "new"
860 gas w-loader
3-600 series
541 high clearance
8N

ALLIS CHALMERS
D19 Diesel 3 point
2-D19 Diesel snap coupler
D17 gas IV 3 point
D17 gas snap coupler
D15 gas II 3 point
D12 gas, 3 point, live P.T.O.
G, plow, cultivator
WD45 Diesel power steering
WD45 gas power steering
D17 Diesel snap coupler
D17 Diesel IV 3 point

MISC.
M.M. G1000 Diesel
M.M. G706 Diesel, 4 wheel drive
3-D.B. 1200
2-D.B. 990

OLIVER
4-1855 Diesel (demo.)
1950T Diesel
2-1850 Diesel
1650 Diesel
1600 gas
1550 diesel
550 gas
880 gas
880 diesel

CASE
680 CK Diesel w-loader
1200 Diesel, 4 wheel drive 150 H.P.
3-930 Diesel standard
530 Diesel, direct drive
530 gas, direct drive
Super 400 Diesel
930 CK Diesel

JOHN DEERE
4520-2000 hours
4-4020 Diesels
2-4010 Diesel, turbo
2510 gas trycycle
2020 Diesel utility
2-2010
820 Diesel
2-730 Diesel
730 gas
3-720 Diesel
630 gas
520 gas
3-G, good power
3010 Gas
2520 Diesel with loader
5020 Diesel

TRUCKS

1967 Ford W1000, 318 Detroit
1958 Diamond Reo 10 wheeler dump
1970 Int. Transtar twin screw sleeper cab
1961 G.M.C. Tractor
2-1961 Ford with 24' rollback -
1968 G.M.C. T tag with Welder
1958 Chevy dump
1965 Chevy T tag stake
1964 Chevy dump
1972 Chevy Pickup
1970 Ford 1½ ton with cement mixer
1971 Ford Pickup
1972 Ford Pickup
1969 Int. Sleeper cab, twin screw
Chevy Corvan

CORN HEADS FOR ALL COMBINES

NEW SPECIALS

1500 bu corn cribs - $435.00
5 ton wagons - $145.00
180 bu gravity bins - $225.00
Post hole diggers 12" augers $175.00
6' 3 pt blades - $85.00
5' 3 pt rotary mowers - $295.00
PLUS MUCH, MUCH MORE

MISC.

Loader for Int. TD 6 Crawler	
New Backhoe Buckets	$125.00
New Loader buckets	$195.00
New Dozer blades	$600.00
(3) Schramm air compressors	
J.D. 840 self loading pan	
(2) Trenchers	
One ton roller	
Gallion Roller (5 ton)	
2-Diesel Road Grader	
8 Tag-a-long trailers both New and Used	
Loader for J.D. 440 crawler	
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Dozer blade for Cat D2 crawler	

WE HAVE ACRES AND ACRES OF QUALITY FARM MACHINERY OF EVERY MAKE, SIZE, AND DESCRIPTION

WENGER'S FARM MACHINERY, INC.

South Race Street, Myerstown, Pennsylvania — Phone 717-866-2138

Testing Milk

(Continued From Page 1)

Gilmore added. "Protein content is higher than butterfat in some individuals. "We weren't too surprised to find that a few individuals had higher protein than fat content. But we were surprised to find entire herds with higher protein than fat readings."

A lot of variables enter into variations in fat and protein contents, Gilmore explained. Penn State's program is aimed primarily at trying to pin down those variables. Gilmore's research team is trying to find out the role of genetics in protein production along with the effects of feeding and management programs.

Nearly all of milk's protein is found in the skim portion, although as a rule, when fat goes up, so does protein. Breeding, feeding and managing for protein, even at the expense of fat is a future possibility, according to Gilmore, and not just because of government regulations.

"Even today," he said, "there are some economic advantages to increasing milk protein. One pound of fat is worth 80 cents when it's turned into butter. But a pound of protein is worth 98 cents when it's made into cheese.

"If the demand for milk protein increases, dairies could start buying that basis, which means farmers would produce on that basis. If that ever happens we'll have the equipment to tell farmers exactly how their herds are doing, so they'll be able to produce milk that's marketable at the best possible price."

GEM

(Continued From Page 1)

been realized for quite some time with the knowledge that a dairyman's time for herd management is shrinking. Too, many dairymen want and need help with selecting service sires, record keeping, merchandising and other management decisions.

With this in mind, the GEM service began in the fall of 1971 with three definite goals:

1. Evaluating the herd to determine the strengths and weaknesses of individual cows and heifers.

2. Develop a breeding program.

3. Evaluating herd management and offering suggestions for improvement.

To accomplish these goals, the GEM consultant identifies groups of cows within each herd that possess common physical strengths and weaknesses. Together he and the dairymen determine which sires can contribute the correct physical traits to a given group. In this way, a breeding program is established for the herd using a minimum number of sires.

To insure the success of the breeding program, the consultant also evaluates key management areas including calf raising, growth rate of heifers, average age at first calving and body weight following calving, herd removals for breeding purposes and herd losses due to sickness, disease, etc., average days open for breedings per conception. In addition, the average prices for animals sold for breeding purposes, the herd's production data, genetics of the herd's service sires and the pounds of milk produced per man per year are evaluated.

Elam Bollinger has been farming since 1946. "I started with grades," he said, "and I've had an upward climb, but I just don't think I've gotten as far as I should in breeding. So as soon as I heard about GEM, I asked Clarence Stauffer to evaluate my herd. I wanted help in mating the right bull to the right cows. Clarence helped me select two sires, quite a reduction from the nine I had been using. He also recommended that I continue to use my young sire on heifers and difficult breeders. I'm happy with the GEM service," Elam said. "I think it could help a lot of dairymen." Elam has indeed made progress. He currently has a rolling herd average above 15,000 pounds of milk per cow on 39 Registered Holsteins.

Roy Stoner, Lititz, farms in partnership with his son Ken milking about 75 Holsteins Stoner went to GEM because, he said, "I wanted the service mainly to upgrade the herd ...increase production and improve feet and legs."

While production is needed to pay the bills, more and more dairymen are realizing that cows with wearing qualities and able to stand the strain of high production for a number of years are the most profitable.

Besides breeding and management assistance, GEM also offers buying and selling assistance and help with herd records. GEM consultants are authorized to help dairymen enrolled in the service locate buyers for animals they have for sale and locate animals for sale for them to buy.

GEM brings together the critical areas of dairy cattle breeding to help dairymen improve their herds. Dairymen who find it difficult to put modern genetics and sound management recommendations togather in their herd will find GEM not only a convenience, but a very meaningful service.

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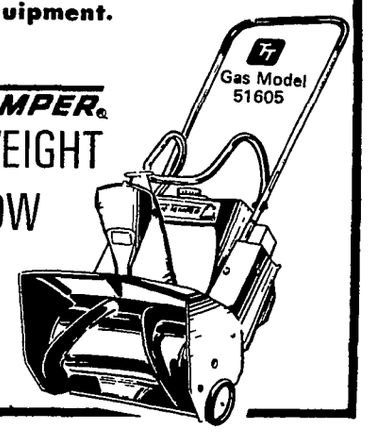

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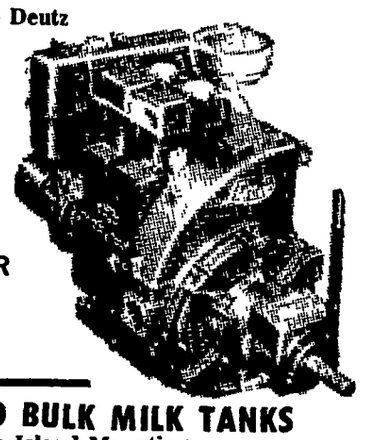

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